

March 19, 2004

State of Utah
Division of Oil, Gas & Mining
Attn: Diana Whitney
1594 West North Temple - Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: Federal 1-18-9-18, 3-18-9-18, 5-18-9-18, 9-18-9-18, 11-18-9-18, (3-18-9-18) and 15-18-9-18.

Dear Diana:

Enclosed find APD's on the above referenced wells. If you have any questions, feel free to give either Brad or myself a call.

Sincerely

Mandie Crozier

Regulatory Specialist

mc

enclosures

RECEIVED

MAR 2 2 2004

DIV. OF OIL, GAS & MINING

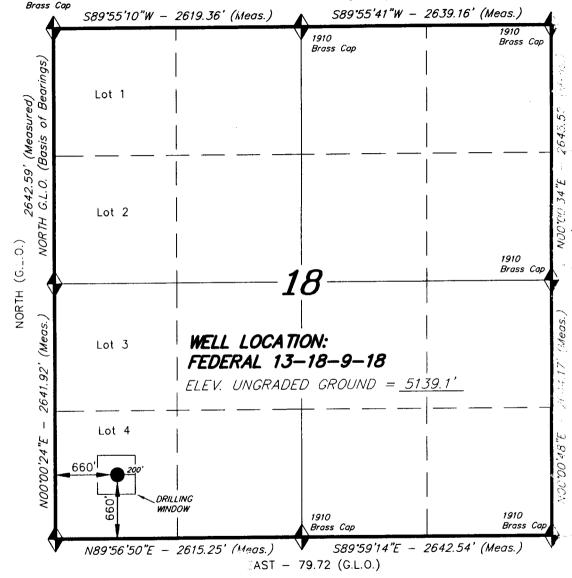
Form 3160-3 (September 2001)			FORM APPRO OMB No. 100	1-0136
UNITED STATES			Expires January 1	31, 2004
DEPARTMENT OF THE IN	· -		5. Lease Serial No.	
BUREAU OF LAND MANA	GEMENT	-	U-39714	
APPLICATION FOR PERMIT TO DI	RILL OR REENTER		6. If Indian, Allottee or T	ribe Name
			N/A	
la. Type of Work: DRILL REENTE	R		7. If Unit or CA Agreemer	nt, Name and No.
			N/A	
1b. Type of Well: Oil Well Gas Well Other	Single Zone Multip	le Zone	8. Lease Name and Well N Federal 13-18-9-18	
2. Name of Operator			9. API Well No.	· · · · · · · · · · · · · · · · · · ·
Inland Production Company			43-04	7-35585
3a. Address	3b. Phone No. (include area code)		10. Field and Pool, or Explo	
Route #3 Box 3630, Myton UT 84052	(435) 646-3721	ĺ	Eight Mile Flat	•
4. Location of Well (Report location clearly and in accordance with	any State requirements.*)		11. Sec., T., R., M., or Blk.	and Survey or Area
At surface SW/SW 660' FSL 660' FWL 4430 894	Y 40. 02533			
At proposed prod. zone 590232	X -109.94257		SW/SW Sec. 18, T9	9S R18E
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State
Approximatley 18.0 miles southeast of Myton, Utah			Uintah	UT
15. Distance from proposed* location to nearest	16. No. of Acres in lease	17. Spacing	Unit dedicated to this well	
property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 660 f/lse, NA f/unit	1,717.32		40 Acres	
18. Distance from proposed location*	19. Proposed Depth	20. BLM/B	A Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 2640'	6500' #4488		188944	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start	t*	23. Estimated duration	
5139' GL	3rd Quarter 2004		Approximately seven (7) days from sp	ud to rig release.
	24. Attachments			
The following, completed in accordance with the requirements of Onshor	re Oil and Gas Order No.1, shall be atta	ched to this	form:	
1. Well plat certified by a registered surveyor.	4. Bond to cover the	e operations	unless covered by an existi	ing bond on file (see
2. A Drilling Plan.	Item 20 above).			
A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	Lands, the 5. Operator certificat 6. Such other site s authorized officer	pecific infor	mation and/or plans as may	be required by the
25. Signature	Name (Printed/Typed)		Date	
Whand land on	Mandie Crozier		کے ا	119/2
Title				21.17.07
Regulatory Specialist	T this		•	
Approved by Signatura 1	Name (Printed/Typed)	•	Date	3 00 4
Applice.	BRADLEY G.	HILL	, , , , , , , , , , , , , , , ,	5-25-04
Approved by Signature Approval Application approval does not warrant or certify the the applicant holds let	ENVIRONMENTAL SC	IENTIST :	III	
Application approval does not warrant or certify the the applicant holds le		the subject le	ase which would entitle the a	pplicant to conduct
operations thereon. Conditions of approval, if any, are attached.			· 	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212. make it States any false, fictitious or fraudulent statements or representations as to		willfully to	make to any department or a	agency of the United

*(Instructions on reverse)

RECEIVED MAR 2 2 2004

T9S, R18E, S.L.B.&M.

N89*59'W - 79.61 (G.L.O.)

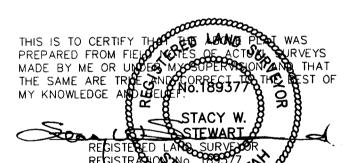


= SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

INLAND PRODUCTION COMPANY

WELL LOCATION, FEDERAL 13-18-9-18, LOCATED AS SHOWN IN LOT 4 OF SECTION 18, T9S, R18E, S.L.B.&M. UINTAH COUNTY, UTAH.



TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: D.J.S.
DATE: 9-24-03	DRAWN BY: J.R.S.
NOTES:	FILE #

INLAND PRODUCTION COMPANY FEDERAL #13-18-9-18 SW/SW SECTION 18, T9S, R18E UINTAH COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. <u>GEOLOGIC SURFACE FORMATION:</u>

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

 Uinta
 0' – 1640'

 Green River
 1640'

 Wasatch
 5580'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 1640' - 6500' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. <u>MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:</u>

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. <u>TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:</u>

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

INLAND PRODUCTION COMPANY FEDERAL #13-18-9-18 SW/SW SECTION 18, T9S, R18E UINTAH COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Inland Production Company well location site Federal #13-18-9-18 located in the SW 1/4 SW 1/4 Section 18, T9S, R18E, Uintah County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles \pm to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 11.7 miles \pm to it's junction with an existing road to the southeast; proceed southeasterly - 3.6 miles \pm to it's junction with an existing road to the southwest; proceed southwesterly and then southeasterly - 1.1 miles \pm to it's junction with the beginning of the proposed access road; proceed northeasterly along the proposed access road - 910' \pm to the proposed well location.

2. PLANNED ACCESS ROAD

See Topographic Map "B" for the location of the proposed access road.

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. LOCATION AND TYPE OF WATER SUPPLY

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP.

8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

9. <u>WELL SITE LAYOUT</u>

See attached Location Layout Diagram.

10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

11. SURFACE OWNERSHIP - Bureau Of Land Management

12. OTHER ADDITIONAL INFORMATION

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #03-82, 1/12/04. Paleontological Resource Survey prepared by, Wade E. Miller, 7/28/03. See attached report cover pages, Exhibit "D".

For the Federal #13-18-9-18 Inland Production Company requests a 390' ROW in Least U-39713 to allow for construction of the proposed access road as well as the gas and water lines. **Refer to Topographic Map "B" and Topographic Map "C".** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Inland Production Company requests a 50' ROW for the Federal #13-18-9-18 to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. Refer to Topographic Map "C." For a ROW plan of development, please refer to the Monument Butte Field SOP.

Inland Production Company also requests a 50' ROW be granted for the Federal #13-18-9-18 to allow for construction of a 3" steel water injection line and a 3" poly water return line. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Water Disposal

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Inland's secondary recovery project.

Water not meeting quality criteria, is disposed at Inland's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Reserve Pit Liner

Please refer to the Monument Butte Field SOP.

Location and Reserve Pit Reclamation

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

ShadscaleAtriplex confertifolia4 lbs/acreScarlet globmallowSphaeralcea conccinea4 lbs/acreGalleta grassHilaria jamesii4 lbs/acre

Details of the On-Site Inspection

The proposed Federal #13-18-9-18 was on-sited on 7/23/03. The following were present; Brad Mecham (Inland Production), Byron Tolman (Bureau of Land Management), and SWCA representatives. Weather conditions were clear @ 80 degrees.

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name:

Brad Mecham

Address:

Route #3 Box 3630

Myton, UT 84052

Telephone:

(435) 646-3721

Certification

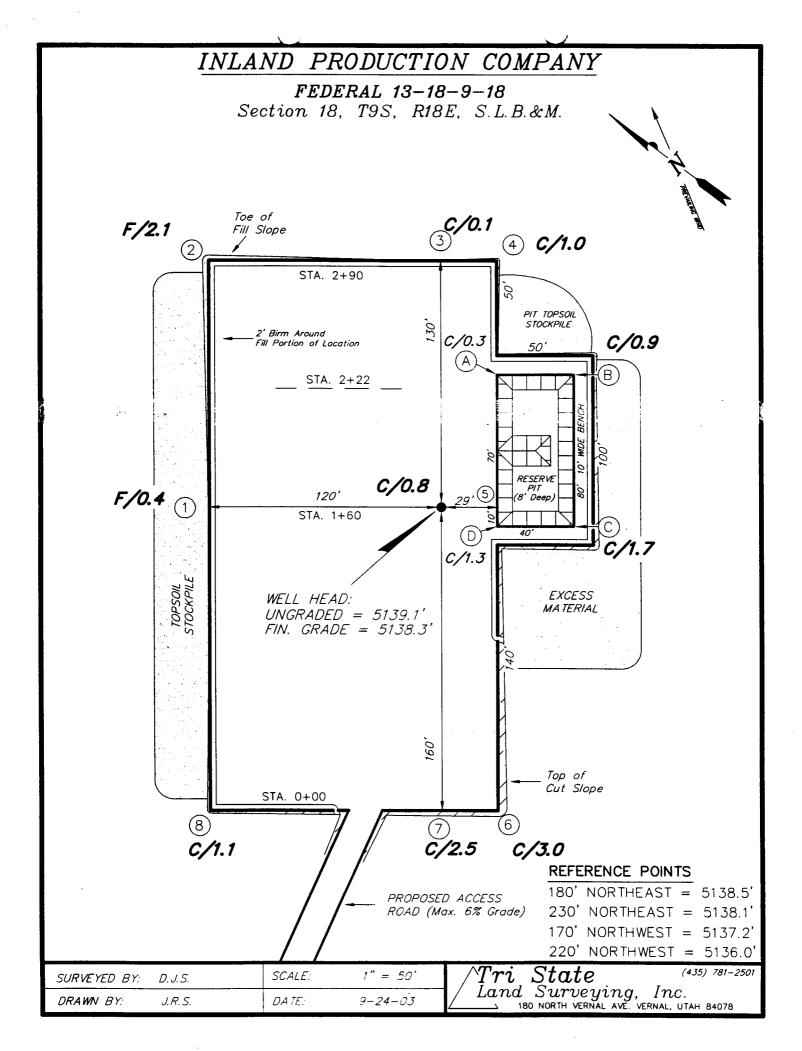
Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #13-18-9-18 SW/SW Section 18, Township 9S, Range 18E: Lease U-39714 Uintah County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

<u>4/04</u>

Date

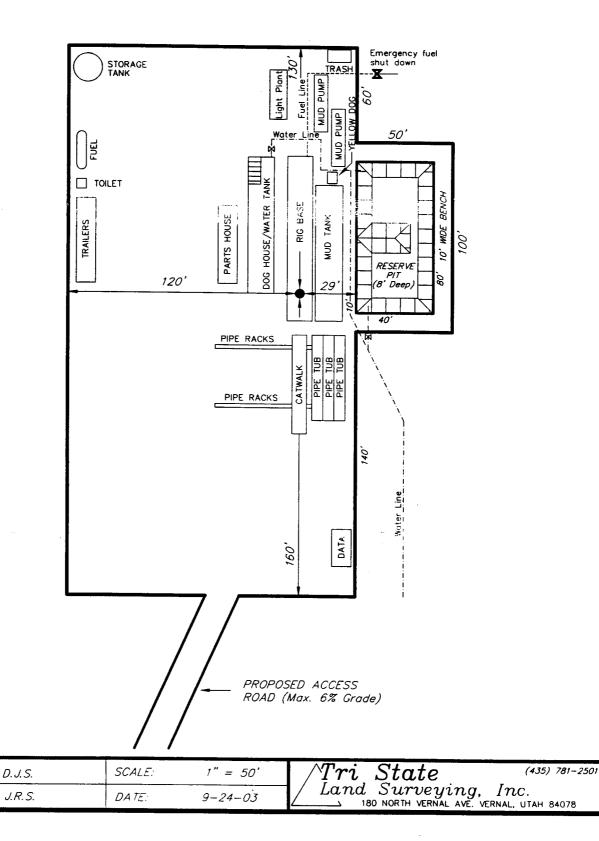
Mandie Crozier Regulatory Specialist



INLAND PRODUCTION COMPANY CROSS SECTIONS FEDERAL 13-18-9-18 20, 11 STA. 2+90 1'' = 50'STA. 2+22 1" = 50'EXISTING FINISHED GRADE GRADE 20, WELL HOLE 11 1" = 50'STA. 1+60 20, 11 1" = 50'STA. 0+00 ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards) 6" TOPSOIL ITEM CUT FILL **EXCESS** PAD 650 650 Topsoil is 0 NOTE: not included in Pad Cut UNLESS OTHERWISE NOTED PIT 640 640 ALL CUT/FILL SLOPES ARE TOTALS 1,290 650 890 640 AT 1.5:1 Tri State Land Surveying, Inc. 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 (435) 781-2501 SCALE: 1" = 50' SURVEYED BY: D. J. S. 9-24-03 J.R.S. DA TE: DRAWN BY:

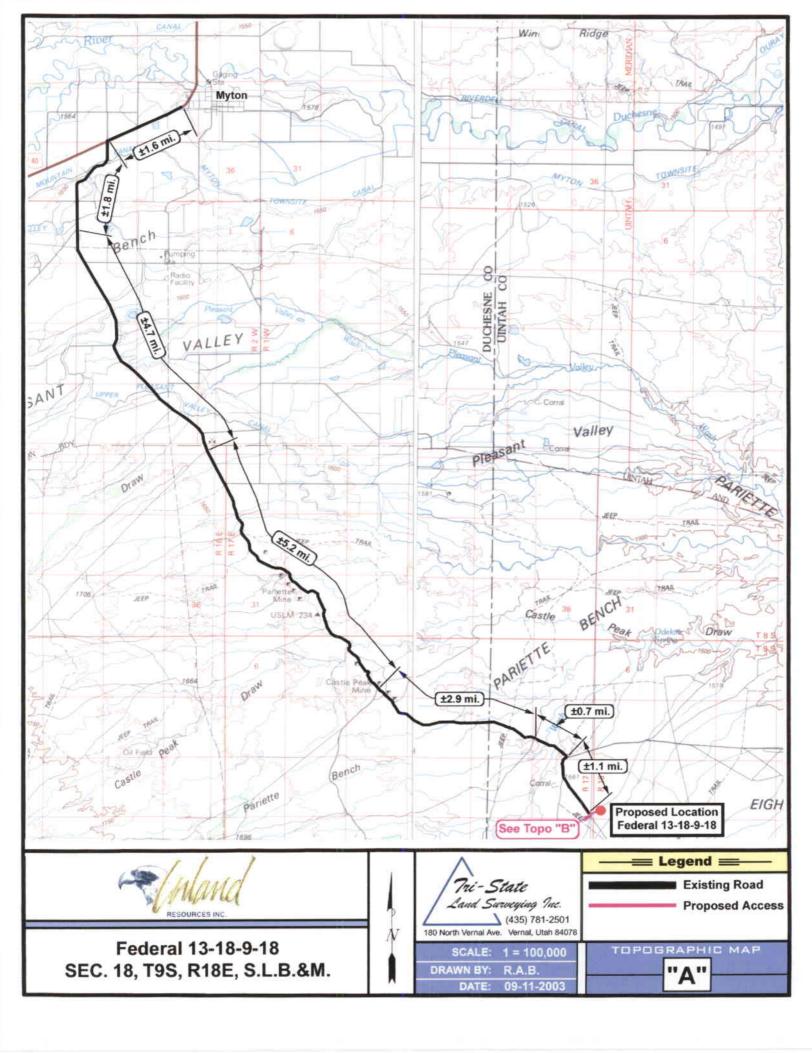
INLAND PRODUCTION COMPANY

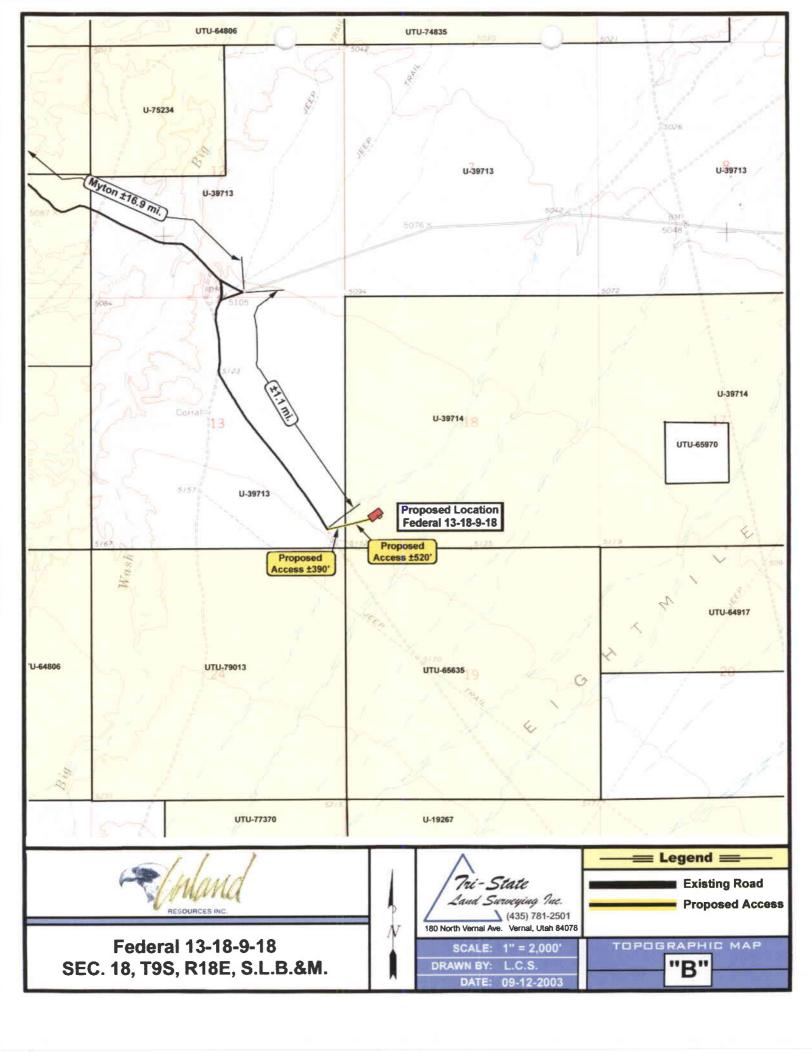
TYPICAL RIG LAYOUT
FEDERAL 13-18-9-18

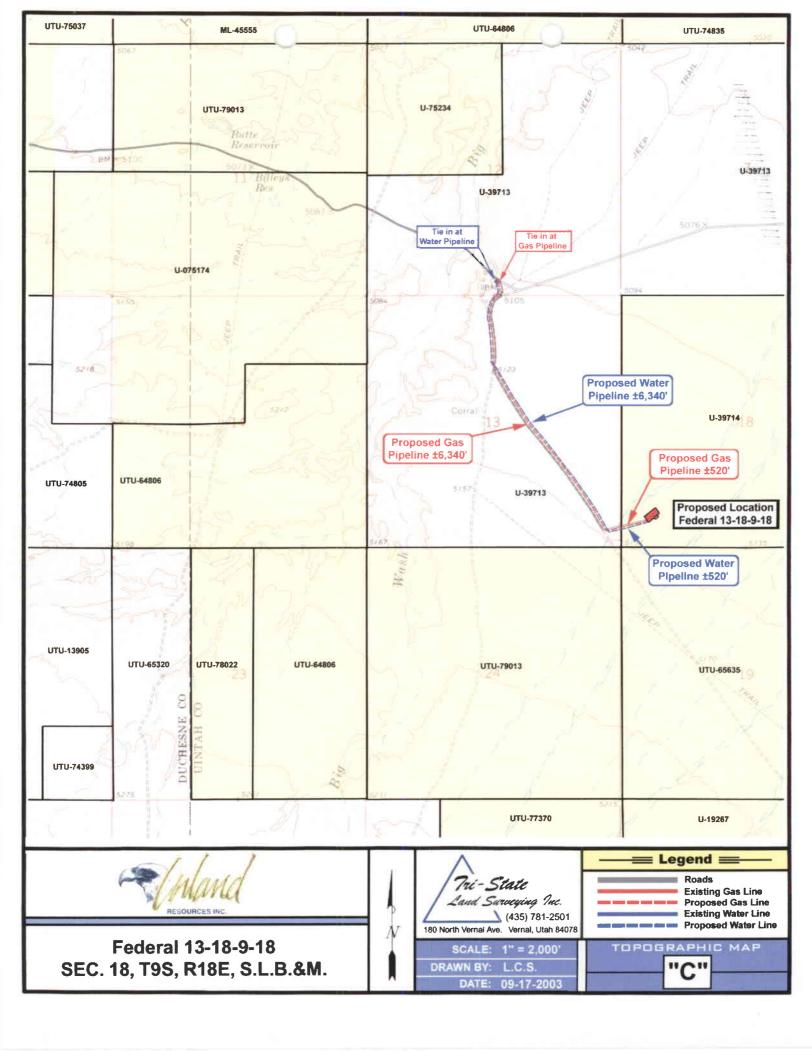


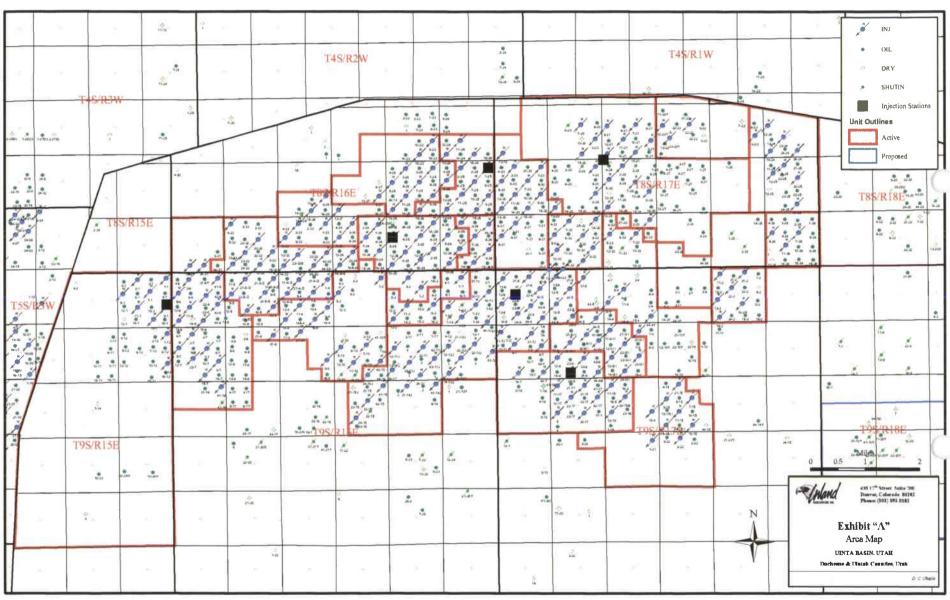
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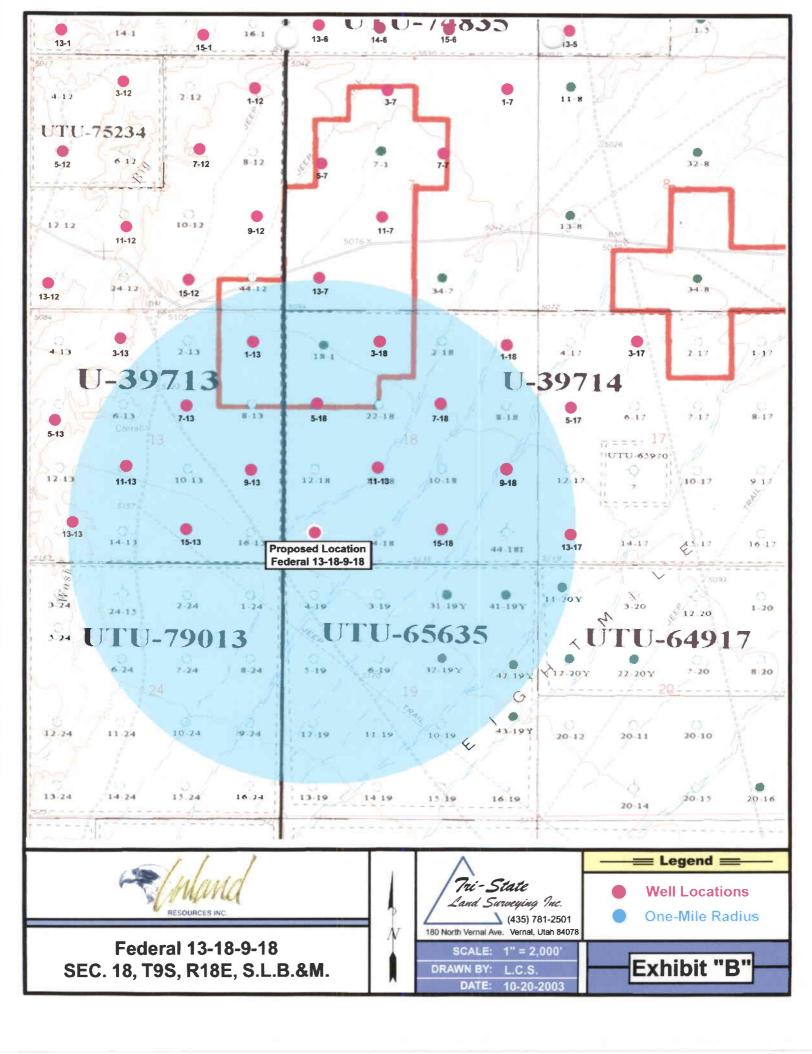
DRAWN BY:











2-M SYSTEM

Blowout Prevention Equipment Systems

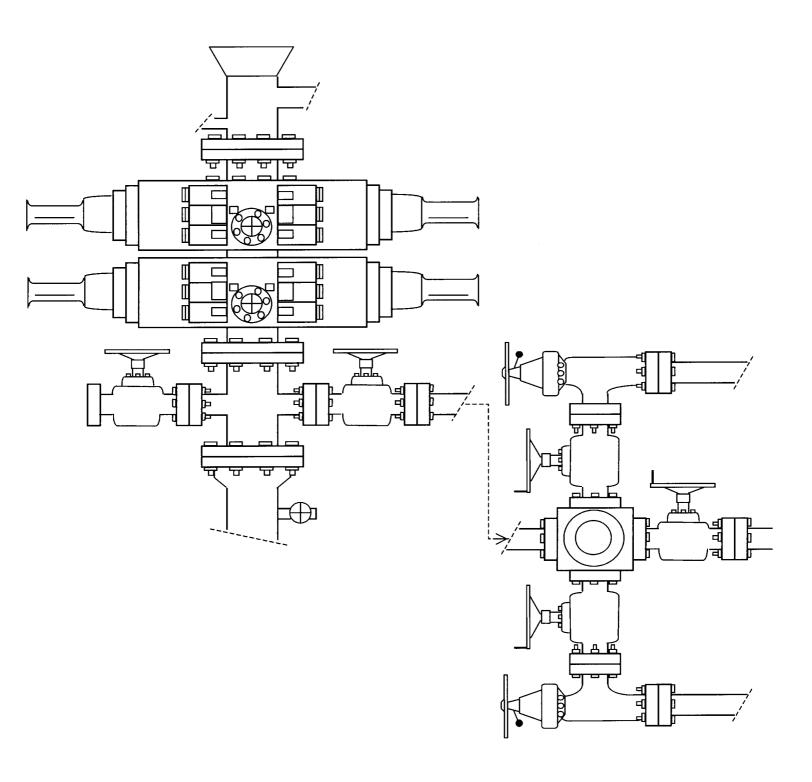


EXHIBIT C

Exhibit D" Page 1

CULTURAL RESOURCE INVENTORY OF INLAND PRODUCTIONS' PARCEL IN T 9 S, R17 E, SEC. 13, 14, 15, 23, & 24 AND T 9 S, R 18 E, SEC. 18 & 19, DUCHESNE AND UINTAH COUNTIES, UTAH

BY:

Katie Simon and Keith R. Montgomery

Prepared For:

Bureau of Land Management Vernal Field Office

Prepared Under Contract With:

Inland Production 2507 Flintridge Place Fort Collins. CO 80521

Prepared By:

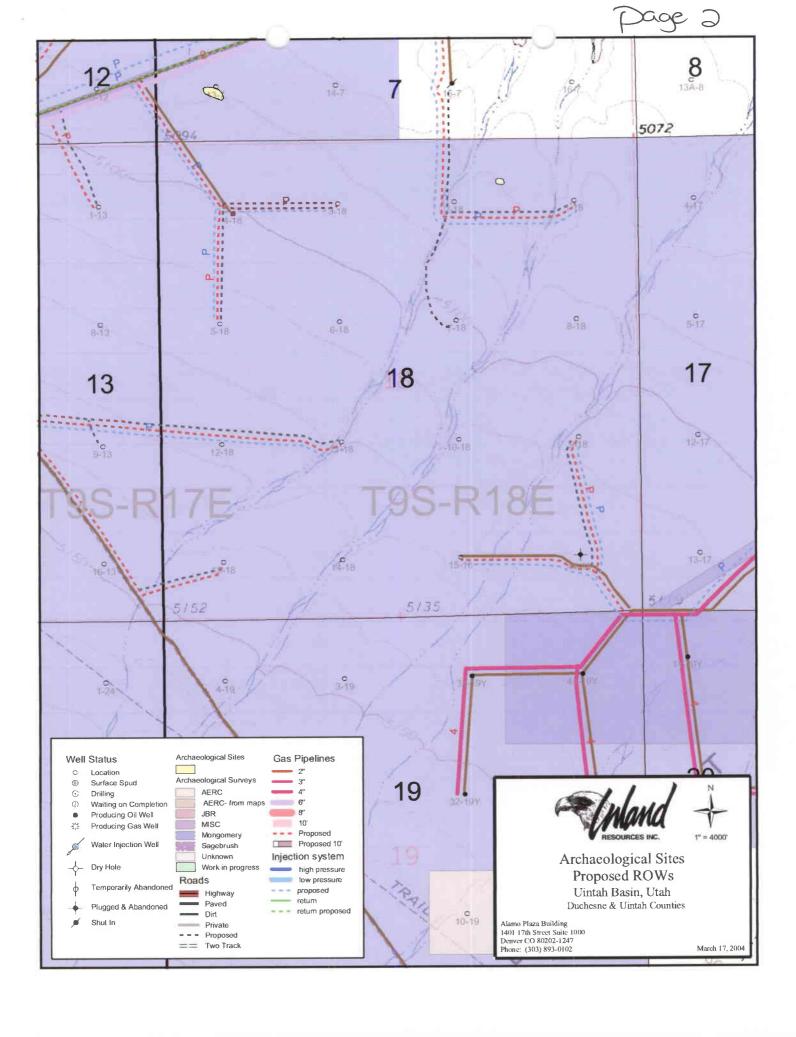
Montgomery Archaeological Consultants P.O. Box 147 Moab, Utan 84532

MOAC Report No. 03-82

January 12, 2004

United States Department of Interior (FLPMA)
Permit No. 03-UT-60122

State of Utah Antiquities Project (Survey) Permit No. U-03-MQ-0750b



INLAND RESOURCES, INC.

PALEONTOLOGICAL FIELD SURVEY OF PROPOSED PRODUCTION DEVELOPMENT AREAS, DUCHESNE AND UINTAH COUNTIES, UTAH

20

22 22

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(Section 35, T 8 S, R 17 E; Sections 13, 14, 23, 24, T 9 S, R 17 E; NE 1/4, NE 1/4, Section 15, T 9 S, R 17 E; Sections 18, 19, T 9 S, R 18 E; Sections 2, 3, 10 and western half of Section 11, T 9 S, R 15 E)

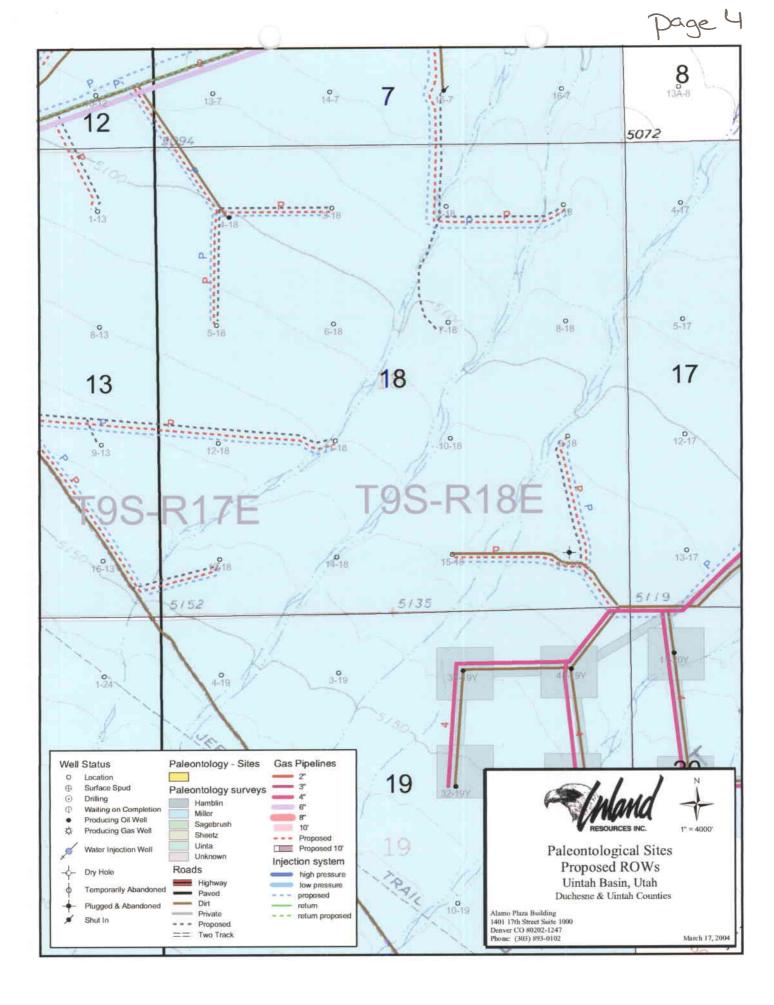
REPORT OF SURVEY

Prepared for:

Inland Resources, Inc.

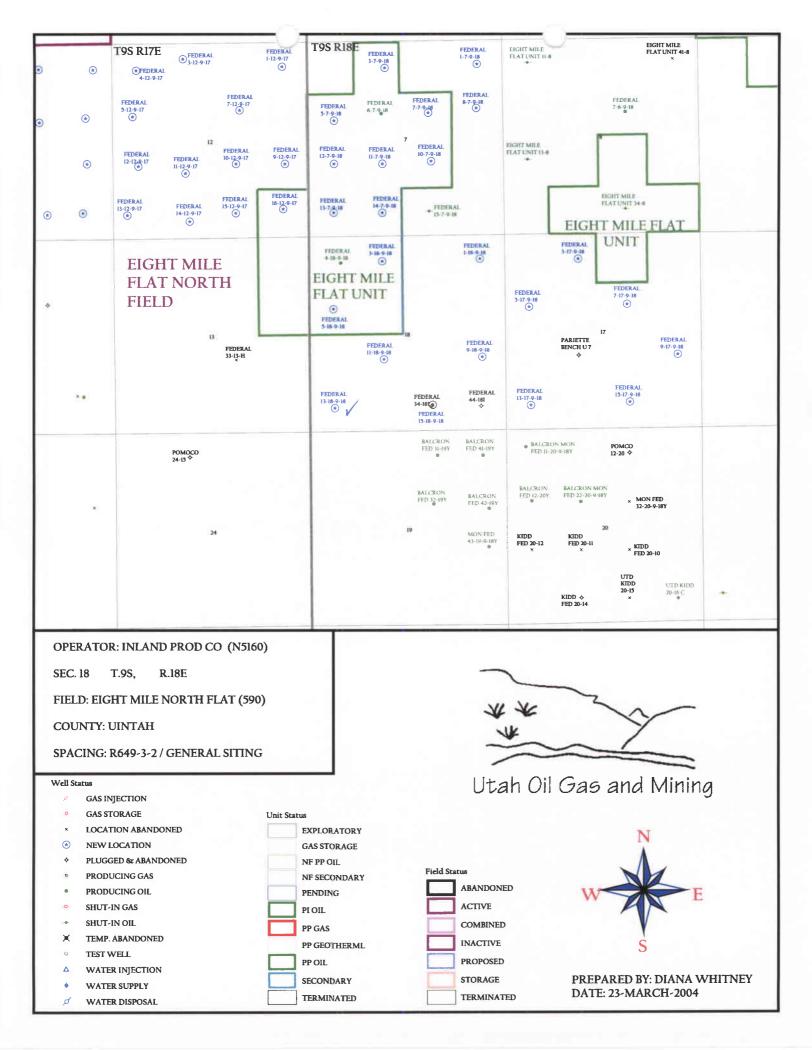
Prepared by:

Wade E. Miller Consulting Paleontologist July 28, 2003



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVE	ED: 03/22/2004	API NO. ASSIGN	ED: 43-047-3558	5
OPERATOR:	FEDERAL 13-18-9-18 INLAND PRODUCTION (N5160) MANDIE CROZIER CCATION:	PHONE NUMBER: 4	35-646-3721	
SWSW	18 090S 180E	INSPECT LOCATI	1 BY: / /	
	: 0660 FSL 0660 FWL 0660 FSL 0660 FWL	Tech Review	Initials	Date
UINTAH		Engineering		
8 MILE I	FLAT NORTH (590)	Geology		
	1 - Federal CR: U-39714	Surface		
SURFACE OWN	ER: 1 - Federal PRMATION: GRRV PHANE WELL? NO	LATITUDE: 40.0		
Plat Bond: (No. N Potas N Oil S Water (No. N RDCC	Phale 190-5 (B) or 190-3 or 190-13 Permit MUNICIPAL Review (Y/N)	R649-3-3. I Drilling Un: Board Cause Eff Date: Siting:	General From Qtr/Qtr & 920' Exception	Between Wells
COMMENTS: _	Sop, Seperate Sile	,		
STIPULATION	15: 1- Edward approva 2 Spacing Stip	C		
			,	





State of Utah

Department of Natural Resources

Division of Oil, Gas & Mining

ROBERT L. MORGAN Executive Director

LOWELL P. BRAXTON
Division Director

March 23, 2004

Inland Production Company Rt. #3, Box 3630 Myton, UT 84052

Re:

Federal 13-18-9-18 Well, 660' FSL, 660' FWL, SW SW, Sec. 18, T. 9 South, R. 18 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-35585.

Sincerely,

John R. Baza Associate Director

pab Enclosures

cc: Uintah County Assessor

Bureau of Land Management, Vernal District Office



Operator:	Inland Production Company			
Well Name & Number	Federal 13-18-9-18			
API Number:	43-047-			
Lease:	U-39714			
Location: <u>SW SW</u>	Sec. 18	T. 9 South	R. <u>18 East</u>	

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.



Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.





Secretary of State

ARTICLES OF AMENDMENT TO THE ARTICLES OF INCORPORATION OF INLAND PRODUCTION COMPANY

In the Office of the Secretary of State of Texas

SEP 02 2004

Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 - Name

The name of the corporation is Inland Production Company.

ARTICLE 2 - Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE - The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1st day of September, 2004.

INLAND RESOURCES INC.

Susan G. Riggs, Treasurer



United States Department of the Interior



BUREAU OF LAND MANAGEMENT Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155 http://www.blm.gov

IN REPLY REFER TO: 3106 (UT-924)

September 16, 2004

Memorandum

To:

Vernal Field Office

From:

Acting Chief, Branch of Fluid Minerals

Subject:

Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Milas Llouters

Michael Coulthard Acting Chief, Branch of Fluid Minerals

Enclosure

1. State of Texas Certificate of Registration

cc:

MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225 State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114

Teresa Thompson Joe Incardine Connie Seare

		and the second s			
UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
.** 	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	72013A 73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77107X 77236X
017991	38411	65970	74406	77553·	77230X 77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	76360X 79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	0130721
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833 [,]	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075	. 0-000	
075174	49950	72103	75078		•
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239	•	
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		
*					

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

006

Change of Operator (Well Sold)

ROUTING

1. GLH 2. CDW

3. FILE

Designation of Agent/Operator

X Operator Name Change

Merger

The operator of the well(s) listed below	has changed	i, effect	tive:			9/1/2004	**		٦
FROM: (Old Operator):			TO: (New Operator): N2695-Newfield Production Company Route 3 Box 3630 Myton, UT 84052						
Phone: 1-(435) 646-3721				Phone: 1-(435)					
	No.			Unit:	010 3721				┥
WELL(S)									┪
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	1
FEDERAL 2-4-9-18	04	090S	180E	4304735589		Federal	OW	DRL	K
FEDERAL 3-4-9-18	04	090S	180E	4304735590		Federal	ow	APD	K
FEDERAL 5-4-9-18	04	090S	180E	4304735591		Federal	ow	APD	K
FEDERAL 6-4-9-18	04	090S	180E	4304735592		Federal	ow	APD	K
FEDERAL 8-4-9-18	04	090S	180E	4304735593	14528	Federal	ow	DRL	K
FEDERAL 10-4-9-18	04	090S	180E	4304735594	14535	Federal	ow	DRL	K
FEDERAL 12-4-9-18	04	090S	180E	4304735595		Federal	ow	NEW	K
FEDERAL 16-4-9-18	04	090S	180E	4304735596		Federal	OW	APD	K
FEDERAL 5-17-9-18	17	090S	180E	4304735561		Federal	ow	APD	K
FEDERAL 7-17-9-18	17	090S	180E	4304735562		Federal	ow	APD	K
FEDERAL 9-17-9-18	17	090S	180E	4304735563		Federal	ow	APD	K
FEDERAL 13-17-9-18	17	090S	180E	4304735564		Federal	ow	APD	K
FEDERAL 15-17-9-18	17	090S	180E	4304735565		Federal	OW	APD	K
FEDERAL 1-18-9-18	18	090S	180E	4304735580		Federal	OW	APD	K
FEDERAL 3-18-9-18	18	090S	180E	4304735581		Federal	OW	APD	K
FEDERAL 5-18-9-18	18	090S	180E	4304735582		Federal	ow	APD	K
FEDERAL 9-18-9-18	18	090S	180E	4304735583		Federal	OW	APD	K
FEDERAL 11-18-9-18	18	090S	180E	4304735584		Federal	OW	APD	K
FEDERAL 13-18-9-18	18	090S	180E	4304735585		Federal	ow	APD	K
FEDERAL 15-18-9-18	18	090S	180E	4304735587		Federal	OW	APD	K

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

(R649-8-10) Sundry or legal documentation was received from the FORMER operator on:
 (R649-8-10) Sundry or legal documentation was received from the NEW operator on:
 9/15/2004

3. The new company was checked on the Department of Commerce, Division of Corporations Database on:

2/23/2005

4. Is the new operator registered in the State of Utah:

YES Business Number:

755627-0143

5. If NO, the operator was contacted contacted on:

6b. Inspections of LA PA state/fee well sites complete on:	waived
· · · · · · · · · · · · · · · · · · ·	
7. Federal and Indian Lease Wells: The BLM and or or operator change for all wells listed on Federal or Indian le	
8. Federal and Indian Units: The BLM or BIA has approved the successor of unit opera	ator for wells listed on: n/a
 Federal and Indian Communization Agreemen The BLM or BIA has approved the operator for all wells li 	
10. Underground Injection Control ("UIC") The Inject, for the enhanced/secondary recovery unit/project for	the Division has approved UIC Form 5, Transfer of Authority to the water disposal well(s) listed on: 2/23/2005
DATA ENTRY: 1. Changes entered in the Oil and Gas Database on:	2/28/2005
2. Changes have been entered on the Monthly Operator Chan	nge Spread Sheet on: 2/28/2005
3. Bond information entered in RBDMS on:	2/28/2005
4. Fee/State wells attached to bond in RBDMS on:	2/28/2005
5. Injection Projects to new operator in RBDMS on:	2/28/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New	on: waived
FEDERAL WELL(S) BOND VERIFICATION: 1. Federal well(s) covered by Bond Number:	UT 0056
INDIAN WELL(S) BOND VERIFICATION: 1. Indian well(s) covered by Bond Number:	61BSBDH2912
FEE & STATE WELL(S) BOND VERIFICATION 1. (R649-3-1) The NEW operator of any fee well(s) listed covers	
2. The FORMER operator has requested a release of liability fr The Division sent response by letter on:	rom their bond on:n/a* n/a
LEASE INTEREST OWNER NOTIFICATION: 3. (R649-2-10) The FORMER operator of the fee wells has been of their responsibility to notify all interest owners of this characteristics.	
COMMENTS: *Bond rider changed operator name from Inland Production Cor	mpany to Newfield Production Company - received 2/23/05

(June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED

5. Lease Designation and Serial No.

11. County or Parish, State

Budget	Bureau No.	1004-013
Expires	March 31	1993

005	SUNDRY NOTICES AND REPORTS ON W

Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721

ELLS UTU-39714 Do not use this form for proposals to drill or to deepen or reentry a different reservoir. 6, If Indian, Allottee or Tribe Name Use "APPLICATION FOR PERMIT -" for such proposals NA 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE N/A 1. Type of Well 8. Well Name and No. Oil Gas FEDERAL 13-18-9-18 Well Other Well 9. API Well No. 43-047-35585 2. Name of Operator **NEWFIELD PRODUCTION COMPANY** 10. Field and Pool, or Exploratory Area EIGHT MILE FLAT NORTI 3. Address and Telephone No.

4. Location of Well (Footage, Sec., T., R., m., or Survey Description) 660 FSL 660 FWL SW/SW Section 18, T9S R18E UINTAH COUNTY, UT. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION X Notice of Intent Change of Plans New Construction Recompletion Subsequent Report Plugging Back Non-Routine Fracturing Water Shut-Off Casing Repair Final Abandonment Notice Conversion to Injection Altering Casing **Permit Extension** Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Newfield Production Company requsts to extend the Permit to Drill this well for one year. The original approval date was 3/23/04 (expiration 3/23/05).

RECEIVED

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

MAR 0 8 2005

DIV. OF OIL, GAS & MINING

14. I hereby certify that the 3/7/2005 Regulatory Specialist Date Signed Mandie Crozier CC: UTAH DOGM (This space for Federal or State office use) Approved by Conditions of approval, if any: CC Utah DOGM

FORM 3160-5 (June 1990)

ITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM	APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

	-		
Lease	Designation	and So	erial No.

005	
005	SUNDRY NOTICES AND REPORTS ON WI

5 sun	DRY NOTICES AND	UTU-39714 6. If Indian, Allottee or Tribe Name NA		
o not use this form for	proposals to drill or to deep Use "APPLICATION FO			
CW II	SUBMIT IN	7. If Unit or CA, Agreement Designation N/A		
Name of Operator NEWFIELD PRO Address and Telephone No. Rt. 3 Box 3630, M	e., T., R., m., or Survey Description)	8. Well Name and No. FEDERAL 13-18-9-18 9. API Well No. 43-047-35585 10. Field and Pool, or Exploratory Area EIGHT MILE FLAT NORTI 11. County or Parish, State UINTAH COUNTY, UT.		
		TO INDICATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA	
TYPE OF S	JBMISSION	TYPE C	OF ACTION	
	Notice of Intent Subsequent Report Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing X Other Permit Extension	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
Davariba Proposed or Completed (Decrations (Clearly state all portinent details	and give pertinent dates including estimated date of starting any proper		

ally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Newfield Production Company requsts to extend the Permit to Drill this well for one year. The original approval date was 3/23/04 (expiration 3/23/05).

RECEIVED

MAR 0 8 2005

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foresting is true and correct Signed Mandie Crozier	Title	Regulatory Specialist	Date	3/7/2005
CC: UTAH DOGM				
(This space for Federal or State office use)				
Approved by	Title		Date	
Conditions of approval, if any:				
CC: Utah DOGM				

RESET

43-047-35585

API:

Application for Permit to Drill Request for Permit Extension Validation

(this form should accompany the Sundry Notice requesting permit extension)

Well Name: Federal 13-18-9-18 Location: SW/SW Section 18, T9S R18E Company Permit Issued to: Newfield Production Company Date Original Permit Issued: 3/23/2004
The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.
Following is a checklist of some items related to the application, which should be verified.
If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes□No□ ∩⊖
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☐
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes□No♥
Have there been any changes to the access route including ownership, or right- of-way, which could affect the proposed location? Yes□Nov
Has the approved source of water for drilling changed? Yes□NoX
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes□NoD
ls bonding still in place, which covers this proposed well? Yes No□
Manho Croxier 3/7/2005
Signature Date
Title: Regulatory Specialist
Representing: Newfield Production Company

Form 3160-3 FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004 (September 2001) **UNITED STATES** 5. Lease Serial No. DEPARTMENT OF THE INTERIOR U-39714 BUREAU OF LAND MANAGEMENT 6. If Indian, Allottee or Tribe Name 007 APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No. la. Type of Work: I DRILL ☐ REENTER 8. Lease Name and Well No. Oil Well Gas Well Other lb. Type of Well: Single Zone Multiple Zone Federal 13-18-9-18 2. Name of Operator New field Production Company 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory (435) 646-3721 Route #3 Box 3630, Myton UT 84052 Eight Mile Flat 11. Sec., T., R., M., or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements.*) At surface SW/SW 660' FSL 660' FWL Lot 4 Sec. 18, T9S R18E sw/sw At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State UT Uintah Approximatley 18.0 miles southeast of Myton, Utah 17. Spacing Unit dedicated to this well 15. Distance from proposed* 16. No. of Acres in lease location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 660 f/lse, NA f/unit 40 Acres 1,717,32 Distance from proposed location* to nearest well, drilling, completed, 19. Proposed Depth 20. BLM/BIA Bond No. on file Approx. 2640' UT0056 applied for, on this lease, ft. #4488944 6500' 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3rd Quarter 2004 5139' GL Approximately seven (7) days from soud to rig release. 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: 1. Well plat certified by a registered surveyor. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan. Operator certification. 3. A Surface Use Plan (if the location is on National Forest System Lands, the 6. Such other site specific information and/or plans as may be required by the SUPO shall be filed with the appropriate Forest Service Office). authorized officer. 25. Signature Name (Printed/Typed) Mandie Crozier Title Name (Printed/Typed) Office ssistant Field Manager Mineral Resources Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212. make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

Conditions of approval, if any, are attached

operations thereon.

RECEIVED
MAY 0 4 2005

NOTICE OF APPROVAL

COAs Page 1 of 3 Well No.: FEDERAL 13-18-9-18

CONDITIONS OF APPROVAL APPLICATION FOR PERMIT TO DRILL

Company/Operator:	Newfield Production Company
Well Name & Number:	FEDERAL 13-18-9-18
API Number:	43-047-35585
Lease Number:	UTU - 39714
Location: LOT 4 (SW	<u>/SW)</u> Sec. <u>18</u> TWN: <u>9S</u> RNG: <u>18E</u>
Agreement:	N/A

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

Well No.: FEDERAL 13-18-9-18

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Submit an electronic copy of all logs run on this well in LAS format. This submission will replace the requirement for submittal of paper logs to the BLM.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

DRILLING PROGRAM

1. Casing Program and Auxiliary Equipment

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the usable water zone, identified at ± 753 ft.

Well No.: FEDERAL 13-18-9-18

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

No construction or drilling shall be allowed during the burrowing owl nesting season (April 1 to Aug. 15), without first consulting the BLM biologist. If no nesting owls are found, drilling will be allowed.

Mountain Plover surveys will have to be conducted in accordance with the U.S. Fish and Wildlife Service Mountain Plover Survey Guidelines.

To reduce noise levels in the area, a hospital muffler or multi-cylinder engine shall be installed on the pumping unit.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Co	mpany:	NEWFII	ELD PRODUC	FION COM	<u>IPANY</u>
Well Name:		FEDERA	AL 13-18-9-18		
Api No <u>:</u>	43-047-35	585	Leas	е Туре:	FEDERAL
Section 18	Township	09S Range 181	E_County	UINTAH	
Drilling Con	ntractor	NDSI	RIG #_	NS#1	
SPUDDE		09/28/05			
		8:00 AM			
	How	DRY			
Drilling w	ill Comme	ence:			
Reported by		FLOYD M	ITCHELL		
Telephone #		1-435-823-	3610		
Date 0	9/28/2005	Signed	CHD		

RECEIVED

SEP 3 0 2005

STATE OF UTAH DIVISION OF GIL GAS AND MINING ENTITY ACTION FORM -FORM 6

ACTIC	. 1			OF OIL, GAS & MINING	49110	, UT 840	24				
CODE		ESILLIA MO VSAA	API MUNER	WELL HAVE				-			
					90	₃c	TP	LOCATION	COUNTY	SPUD	EFFECTIVE
В	99999	14844	43-047-35584	FEDERAL 11-18-9-18	1150000					CLATE	
MELL:	COMMENTS.	RRV	Sunda		NESW	18	98	18E	HATTAN	09/26/05	10/1/05
CODE	CURSENT ENTITY NO.	HEN	APINUMBER	WELL NAME							
	EMITTING	ENTITY NO.		wert world	-	sc ·	WELL LOCAT			SPUO	EFFECTIVE
В	99999	14844	43-047-35585	FEDERAL 13-18-9-18				RG	COUNTY	DATE	CATE
	GR	RV	Sunda		SWSW	18	98	18E	UINTAH	09/28/05	10/7/05
			_ sunai	nee							
CT ON	CURRENT OKYTHIE	ENTITY NO.	APINUMBER	WELL HAME							
					CO	sc	WELL I	GCATION RG	COUNTY	SPUD	EFFECTME
В	99999	14844	43-047-35704	FEDERAL 1-13-9-17	NENE	13	95	17E		DATE	10/11
	G	erv	Sunda		- Parista	10	1 33	17E	UINTAH	09/29/05	10/1/05
nes	CURRENT	T	Sunda	nee							
CCE	ENTITY HC.	NULL NO.	AFFAUNDER	'ASELL PLAME			METLA	CCATION			
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<u> </u>	99999	14963	43-013-32656	FEDERAL 7-13-9-16	SWINE	13	98	16E	Ditaus		DATE
	GRA						- 33	105	DUCHESNE	09/27/05	10/7/05
TICN	CURRENT SYTITY NO.	ORYTHME WEV	APPRUMBER	WELL HAVE							
\top		1101			90	EC	WELLEC	RG	COUNTY	SE/NO	EFFECTIVE
<u>Ч</u>	99999	14964	43-013-32657	FEDERAL 6-13-9-16	SELEN	40				DATE	DATE
∟š ¢O	MMENTS:	RRU			SENW	13	9 S	16E	DUCHESNE	09/26/05	10/7/05
		,0,00								•	
INC:	CLARSYT	NEW	ASHRIMBER								
DE	999999	ENTITY NO.		WELLNAME	ος T	sc sc	WELL LO			SFUD	EFFECTIVE
	AMENTS:				~		ТР	RG	CCLATTY	DATE	DATE
	EN14.					1					

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- D. Re-issign and from the account entity to a new entity
- E- Cilhar pespiele in ocurreur is rections

10 m Come Signature

Kira Kattle

Production Clerk

September 30, 2005

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

	SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter a abandoned well. Use Form 3160-3 (APD) for such proposa			[-	. Lease Seriai	No.	
SUNDRY Do not use t	NOTICES AND REPORTS	ON WELL	.S for an		UTU39714		•
abandoned w	ell. Use Form 3160-3 (APD) f	or such pro	posals.	[5. If Indian, Allo	ottee or	r Tribe Name.
				17	7. If Unit or CA	/Agree	ment, Name and/or No.
1. Type of Well					SUNDANCE I	UNIT	
Oil Well Gas Well	Other				B. Well Name ar	nd No.	
Name of Operator Newfield Production Company				L	FEDERAL 13		18
3a. Address Route 3 Box 3630	3b.	Phone No. (inc.	lude are code)		 API Well No. 4304735585 		
Myton, UT 84052	;	5.646.3721		<u> </u>		ol. or E	Exploratory Area
4. Location of Well (Footage, Sec	., T., R., M., or Survey Description)			Monument Bu			
660 FSL 660 FWL				[1	1. County or Pa	arish, S	State
SW/SW Section 18 T9S R1	8E				Uintah,UT		
12. CHECK	APPROPRIATE BOX(ES) T	O INIDICA	TE NATUR	E OF NO	TICE, OR O	THE	R DATA
TYPE OF SUBMISSION			TYPE OF A	ACTION			
	Acidize	Deepen	П	Production(Start/Resume)	П	Water Shut-Off
☐ Notice of Intent	Alter Casing	Fracture Treat		Reclamation		ä	Well Integrity
Subsequent Report	Casing Repair	New Construct	tion 🔲	Recomplete		X	
—	Change Plans	Plug & Aband	on 🔲	Temporarily	Abandon	-	Spud Notice
Final Abandonment Notice	Convert to Injector	Plug Back	ā	Water Dispe	osal		
On 9-28-05 MIRU NDSI spi 314.22'KB. On 10-04-05 Ce Returned 3 bbls cement to	ud rig #1. Drill 310' of 12 1/4" h ement with 160 sks of Class "G pit.	ole with air m	nist. TIH W/7 L+ 1/4# Cel	7 Jt's 8 5/8 Ilo Flake. I	" J-55 24# c	sgn. §	Set @ > 1.17 cf/sk yeild.
I hereby certify that the foregoing is	true and correct	Title					
Name (Printed/ Typed) Ray Herrera		Drilling Fo	oreman				
Signature Ray Hen	200	Date 10/05/20	ns		··· <u>-</u> ·		
The state of the s		10/03/20		()) 30(32)			
					i dan		Santa da araba da Santa da Araba da Ar
Approved by			Title		Da	ite	
certify that the applicant holds legal or eq which would entitle the applicant to cond		se	Office				
Title 18 U.S.C. Section 1001 and Title 43	U.S.C. Section 1212, make it a crime for a	ny person knowing	gly and willfully	to make to at	SALES COMPANY	# F F	he United

(Instructions on reverse)

NEWFILD PRODUCTION COMPANY - CASING & CEMENT REPORT

LAST CASIN	IG <u>8 5/8"</u>	SET A	AT 3 <u>14'</u>					Production	Company
DATUM							Federal 13		
DATUM TO	CUT OFF C	ASING _			FIELD/PRO	SPECT _	Monumen		
DATUM TO	BRADENHE	AD FLANGE			CONTRACT	OR & RIG#		NDSI NS#	1
TD.DRILLER	310'	LOGGI	ER						
HOLE SIZE	12 1/4	<u> </u>							
LOG OF CA	SING STRIN	IG:							
PIECES	OD	ITEM -	MAKE - DESC	RIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH
			W 19						
									,
		Shoe	Joint 43.30'						
		WHI - 92 cs	g head				8rd	A	0.95
7	8 5/8"	Maverick ST		···	24#	J-55	8rd	Α	302.37
	<u> </u>	1	GUIDE	shoe			8rd	Α	0.9
CASING INV		***	FEET	JTS	TOTAL LENGTH OF STRING				304.22
TOTAL LENGTH OF STRING 304.22				7	LESS CUT OFF PIECE				
LESS NON (1.85		PLUS DATUM TO T/CUT OFF CSG				12
PLUS FULL		OUT	0		CASING SET DEPTH				314.22
	TOTAL		302.37	. 7	}		•		
TOTAL CSG	. DEL. (W/C	THRDS)	297.69	7	COMPA	RE			
TIMING	· ·		1ST STAGE					.,	
		Spud	•	8:00 AM	GOOD CIRC			Yes	
CSG. IN HO			9/28/2005		Bbls CMT C			N/A	3 bbls
BEGIN CIRC			10/4/2005		RECIPROC	ATED PIPE	FOR	N/A	
BEGIN PUM			10/4/2005	11:07 AM	-	LIC TO	-	405	DOL
BEGIN DSPI			10/4/2005		BUMPED P			485	PSI
PLUG DOW		I	10/4/2005	11:25 AM CEMENT CO	MDANV.	B. J.			
STAGE	# SX			CEMENT TY		'' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '			
1	160	Class "G" w	/ 2% CaCL2 +				17 cf/sk viel	d	
•	100	Class C W	7 Z /0 OGOLZ ·	17-m3K Ocho-	Take Trixed (<u>s</u> 10.0 ppg 1	. 17 Onok yio		
CENTRAL 17	ER & SCRA	TCHER PLACE	CEMENT			SHOW MAR	KE & SPACIN	1G	
			and & third for	3					
	- HIIGGIO I	top 6000							
							 	1.4	
								· · · · · · · · · · · · · · · · · · ·	

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OCT 0 6 2005

FORM 3160-5

UNITED STATES

FORM A	PPROVED
OMB No.	1004-0135
Expires Janu	nary 31,200

	DEPARTMENT OF THE INBUREAU OF LAND MANA	NTERIOR		Ex	MB No. 1004-0135 pires January 31,2004
	Y NOTICES AND REPO			5. Lease Serial N	o. ,
Do not use t	this form for proposals to	drill or to re-enter an		UTU39714	tee or Tribe Name.
-	rell. Use Form 3160-3 (AP				Agreement, Name and/or No.
				3	
1. Type of Well				SUNDANCE U	NII
	Other			8. Well Name and	i No.
Name of Operator Newfield Production Company				FEDERAL 13-1	8-9-18
3a. Address Route 3 Box 3630		3b. Phone No. (include are	a anda)	9. API Well No.	· · · · · · · · · · · · · · · · · · ·
Myton, UT 84052		435.646.3721	e coue)	4304735585	I, or Exploratory Area
4. Location of Well (Footage, Sec	c., T., R., M., or Survey Descriptio			Monument Butt	
660 FSL 660 FWL	, , , , , , , , , , , , , , , , , , , ,	,		11. County or Par	ish, State
SW/SW Section 18 T9S R	18E			Uintah,UT	
	<u> </u>			 	· · · · · · · · · · · · · · · · · · ·
12. CHECI	K APPROPRIATE BOX(E	S) TO INIDICATE NA	ATURE OF N	OTICE, OR OT	HER DATA
TYPE OF SUBMISSION		TYP	E OF ACTION		
	☐ Acidize	Deepen	☐ Productio	n(Start/Resume)	Water Shut-Off
Notice of Intent	Alter Casing	Fracture Treat	Reclamati	•	Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomple	ete	☑ Other
	Change Plans	Plug & Abandon	Temporar	rily Abandon	Weekly Status Report
Final Abandonment Notice	Convert to Injector	Plug Back	Water Dis	sposal	
under which the work will be perform involved operations. If the operation Abandonment Notices shall be filed inspection.) On 10/20/05 MIRU NDSI F csgn to 1,500 psi. Vernal E cement & shoe. Drill a 7.8 Dig/SP/GR log's TD to sur KB. Cement with 300 sks of	peration (clearly state all pertinent deter- or recomplete horizontally, give subsur- med or provide the Bond No. on file want to a multiple completion or re- diction only after all requirements, including Rig # 2. Set all equipment. Fall field, & Roosevelt DOG 75 hole with fresh water to a face. PU & TIH with Guide s coment mixed @ 11.0 ppg & ve pit. Nipple down Bop's. D	face locations and measured and with BLM/BIA. Required subset completion in a new interval, a reclamation, have been completed by the completion of the complete comp	I true vertical depths quent reports shall b Form 3160-4 shall b ed, and the operator /, Choke manif f test. PU BHA own drill string ar, 129 jt's of 5 s cement mixed	s of all pertinent marker filed within 30 days be filed once testing he has determined that the fold, & Bop's to a and tag cemer & BHA. Open 1: 5 J-55, 15.5# od @ 14.4 ppg &	ers and zones. Attach the Bond following completion of the as been completed. Final he site is ready for final 2,000 psi. Test 8.625 of @ 270'. Drill out nole log w/ sgn. Set @ 5618' /
·				·	RECEIVED OCT 3 1 2005 DIV. OF OIL, GAS & MINING
I hereby certify that the foregoing i	is true and correct	Title			
Name (Printed/ Typed) Justin Crum		Drilling Foreman	1		
Signature /	//	Date			

Justin (rum 10/28/2005 ONORAL ORGANIZARIO (SPEEK Title Date Approved by Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease Office which would entitle the applicant to conduct operations thereon. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

			5 1/2"	CASING SET	AT	5618.59			
					Fit clir @	5575'			
LAST CASI	NG <u>8 5/8"</u>	SET	AT 3 <u>14'</u>		OPERATOR	₹	Newfield	Production (Company
DATUM	12' KB		-		WELL	Federal 13	-18-9-16		
DATUM TO	CUT OFF C	ASING _	12'		FIELD/PRO	SPECT _	Monumen	t Butte	
DATUM TO	BRADENHE	AD FLANGE			CONTRACT	OR & RIG#		NDSI rig # 2	2
TODRILLER	5650'	LOGG	ER 56 <u>51'</u>						
HOLE SIZE	7 7/8"								
									
LOG OF CA	SING STRIN	IG:			Y				
PIECES	OD	ITEM -	MAKE - DESC	RIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt	····						14
		Short jt @ :	3732' 6.55						9
128	5 1/2"	ETC LT & C	casing		15.5#	J-55	8rd	Α	5575.05
		Float collar							0.6
1	5 1/2"	ETC LT&C	csg		15.5#	J-55	8rd	Α	44.29
			GUIDE	shoe			8rd	Α	0.65
CASING INV	ENTORY B	AL.	FEET	JTS	TOTAL LEN	GTH OF STE	RING		5620.59
TOTAL LENGTH OF STRING 5620.59 129			129	LESS CUT	OFF PIECE			14	
LESS NON CSG. ITEMS 15.25				PLUS DATU	ІМ ТО Т/СИТ	OFF CSG		12	
PLUS FULL JTS. LEFT OUT 264.97 6			6	CASING SE	T DEPTH			5618.59	
	TOTAL		5870.31	135	ו			_	
TOTAL CSG	. DEL. (W/O	THRDS)	5870.31	135	COMPAR	RE			
TIMING	•		1ST STAGE	2nd STAGE					
BEGIN RUN	CSG.		10/24/2005	8:30 PM	GOOD CIRC THRU JOB Yes				
CSG. IN HO	.E		10/25/2005	12:00 AM	Bbis CMT Ci	IRC TO SUR	FACE	30 bbls	
BEGIN CIRC			10/25/2005	12:00 AM	RECIPROCA	ATED PIPE F	OR	THRUSTROK	E_
BEGIN PUM	PCMT		10/25/2005	1:19 AM	DID BACK P	RES. VALVE	HOLD?	Yes	
BEGIN DSPL	CMT		10/25/2005	2:21 AM	BUMPED PL	.UG TO	1800		PSI
PLUG DOW	١		10/25/2005	2:46 AM					
CEMENT US	ED			CEMENT COM	IPANY-	B. J.			
STAGE	# SX			CEMENT TYP	E & ADDITIV	'ES			
1	300	Premlite II w	/ 10% gel + 3 °	% KCL, 3#'s /sk	CSE + 2# s	k/kolseal + 1	/4#'s/sk Cell	o Flake	
		mixed @ 11	.0 ppg W / 3.43	cf/sk yield					
2	410	50/50 poz W	// 2% Gel + 3%	KCL, .5%EC1,	1/4# sk C.F.	2% gel. 3% :	SM mixed @	14.4 ppg W/	1.24 YLD
CENTRALIZI	ER & SCRA	TCHER PLAC				SHOW MAKI			
Centralizers	- Middle fii	rst, top seco	nd & third. Th	en every third	collar for a	total of 20.			

DATE <u>10/25/2005</u>

COMPANY REPRESENTATIVE <u>Justin Crum</u>

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

	DOKEAU OF LAND MAIN		5. Lease Serial No.					
SUNDRY	(NOTICES AND REPO his form for proposals t	ORTS ON WELLS	_	UTU39714				
abandoned w	ell. Use Form 3160-3 (A	PD) for such proposa	n Is.	6. If Indian, Allotte	e or Tribe Name.			
CITID MADE INVOL	DINITION ON T							
Subiviti in i	RIPLICATE - Other In	aructions on reverse	side	7. If Unit or CA/Ag	reement, Name and/or No.	•		
l. Type of Well				SUNDANCE UN	ſΤ			
Oil Well Gas Well	Other			8. Well Name and I	No.			
Name of Operator Newfield Production Company				FEDERAL 13-18	-9-18			
3a. Address Route 3 Box 3630	· · · · · · · · · · · · · · · · · · ·	21. Di Nr. (i)		9. API Well No.				
Myton, UT 84052		3b. Phone No. (include a 435.646.3721	re coae)	4304735585	or Exploratory Area			
4. Location of Well (Footage, Sec	c., T R., M., or Survey Descript			Monument Butte	of exploratory Area			
660 FSL 660 FWL				11. County or Paris	h, State			
SW/SW Section 18 T9S R1	8E			Uintah,UT				
12. CHECK	X APPROPRIATE BOX(ES) TO INIDICATE N	IATURE OF NO	TICE OR OTH	HER DATA			
TYPE OF SUBMISSION			PE OF ACTION	311013, 311 311				
THE OF BODIMBOION								
X Notice of Intent	Acidize	Deepen		n(Start/Resume)	Water Shut-Off			
	Alter Casing Casing Repair	Fracture Treat New Construction	Reclamati		Well Integrity			
Subsequent Report	Change Plans	Plug & Abandon	Recomple		Other			
Final Abandonment Notice	Convert to Injector	Plug Back	X Water Dis	ily Abandon nosal				
Ashley, Monument Butte, or produced water is injected. Water not meeting quality of approved surface disposal	into approved Class II we criteria, is disposed at Nev	lls to enhance Newfield	d's secondary re cosal well (Sec. Accept Utah D Oil, Gas	covery project.	at State of Utah			
			101111					
I hereby certify that the foregoing is Name (Printed/Typed)	s true and correct	Title						
Mandie Crozier	···	Regulatory Spe	cialist	·				
Signature		Date						
- I NOTELN	TERS SPACE F	OR FEDERAL OR S	TATE OFFIC	E USE				
		I						
Approved by	and Approval of this week - Je.	Title		Date	· · · · · · · · · · · · · · · · · · ·			
Conditions of approval, if any, are attack certify that the applicant holds legal or e which would entitle the applicant to con-	quitable title to those rights in the su	E .	e 		IRHEC	EIVE		
Title 18 U.S.C. Section 1001 and Title 4 States any false, fictitious and fraudulen				any department or agen	cy of the United MOV	2 1 2005		

States any false, fictinous and fraudulent statements or representations as to any matter within its jurisdiction

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

i	BUREAU OF LAND MANA	GEMENT		5. Lease Serial N	lo.	•
	Y NOTICES AND REPO			UTU39714		
	this form for proposals to rell. Use Form 3160-3 (AF			6. If Indian, Allot	ttee or Tribe Name.	
SUBMIT IN T	RIPLICATE - Other Ins	tructions on reverse si	le	7. If Unit or CA/A	Agreement, Name and	:l/or No.
1. Type of Well				SUNDANCE U	NIT	
	Other			8. Well Name and	d No.	
2. Name of Operator Newfield Production Company				FEDERAL 13-	18-9-18	
3a. Address Route 3 Box 3630		21. Dl N (ill	1-1	9. API Well No.		
Myton, UT 84052		3b. Phone No. (include are 435.646.3721	coae)	4304735585	1 - F1	
4. Location of Well (Footage, Sec	c., T., R., M., or Survey Description	 		Monument Butt	ol, or Exploratory Are te	a
660 FSL 660 FWL	, . , ,			11. County or Par	rish, State	
SW/SW Section 18 T9S R1	18E			Uintah,UT		
12. CHECK	K APPROPRIATE BOX(E	ES) TO INIDICATE NA	TURE OF NO	OTICE, OR OT	THER DATA	
TYPE OF SUBMISSION		TYPI	E OF ACTION			
	Acidize	Deepen		ı(Start/Resume)	Water Class Co	er
X Notice of Intent	Alter Casing	Fracture Treat	Reclamati		Water Shut-Of	I
Subsequent Report	Casing Repair	New Construction	Recomple		Well Integrity	
Subsequent Report	Change Plans	Plug & Abandon	=	ly Abandon	X Other Variance	 .
Final Abandonment Notice	Convert to Injector	Plug Back	Water Dis	•	· infance	
formation, which are relative separator to maximize gas. Newfield is requesting a value a surge of gas when the the	Enardo or equivalent vent levely low gas producers (20 separation and sales. Ariance for safety reasons. Ariance for safety reasons. Ariance for safety reasons. Ariance for safety reasons. Ariance for safety reasons.	mcfpd). The majority of Crude oil production tan e gauging tanks, lease of	the wells are of the well are of the wells are of the well are of	equipped with a with back press se subject to br	a three phase ture devices will e	mit
I hereby certify that the foregoing is	s true and correct	Title			. 13 ₄	
Name (Printed/Typed) Mandie Crozier		Regulatory Specia	ılist		0	
Signature		Date				
Il lambe		11/18/2005				
	CFHIS SPACE FO	OR FEDERAL OR ST	ATE OFFICE	USE	Federal Approval	Of This
Approved by		Utah	Division o	រ ាំ	Action Is Neces	ssary
Approved by Conditions of approval, if any, are attack certify that the applicant holds legal or e which would entitle the applicant to con-	quitable title to those rights in the sub	warrant or Oil, Gas	s and Miln	ing Dat	<u>:e</u>	RECEIVED
Title 18 U.S.C. Section 1001 and Title 4 States any false, fictitious and fraudulent			rill ty ly to nake to a	ny department or ag	ency of the United	NOV 2 1 200
7						

(Instructions on reverse)

UNII_ STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004 5. Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

	this form for proposals to rell. Use Form 3160-3 (Al		•	6. If Indian, Allot	ttee or Tribe Name.
1. Type of Well	RIPLICATE - Other Ins	le	SUNDANCE U		
Oil Well Gas Well Name of Operator	Other			8. Well Name and FEDERAL 13-1	
Newfield Production Company				9. API Well No.	10-7-10
3a. Address Route 3 Box 3630		3b. Phone No. (include are	code)	4304735585	
Myton, UT 84052 4. Location of Well (Footage, Sec	c T P M or Surray Descripti	435.646.3721		10. Field and Poo Monument Butt	ol, or Exploratory Area
660 FSL 660 FWL	i I., R., M., or Survey Descripti	on)		11. County or Par	
SW/SW Section 18 T9S R	18E			Uintah,UT	
12 CHECI	K APPROPRIATE BOX(I	ES) TO INIDICATE NA	TURE OF N	ļ	THER DATA
	AFFROFRIATE BOAL		E OF ACTION	OTICE, OR OT	TILK DATA
TYPE OF SUBMISSION		I YP.	e of ACTION		
☐ Notice of Intent	Acidize	Deepen	_	n(Start/Resume)	Water Shut-Off
	Alter Casing	Fracture Treat New Construction	Reclamat		Well Integrity
X Subsequent Report	Casing Repair Change Plans	Plug & Abandon		rily Abandon	✓ Other Weekly Status Report
Final Abandonment Notice	Convert to Injector	Plug Back	Water Di	-	Weekly Status Report
Status report for time period Subject well had completion the well. A cement bond lot treated with 20/40 mesh stated 4683'-4694'). All perform flowed back through choke cleaned to 5573'. Zones was placed on production	on procedures intiated in the grass run and a total of the and. Perforated intervals a ations, were 4 JSPF. Comples. A service rig was move ere swab tested for sand ovial rod pump on 11-17-200	ree Green River interval re as follows: Stage #1 (posite flow-through frac d over the well on 11-15 cleanup. A new 1 1/2" bo	s were perfora 5375'-5384'); plugs were us -2005. Bridge	ated and hydrau Stage #2 (4832 sed between sta plugs were dril	ulically fracture 2'-4846'); Stage ages. Fracs were Iled out and well was
I hereby certify that the foregoing Name (Printed/ Typed)	is true and correct	Title			
Lana Nebeker	()	Production Clerk			
Signature (leker	Date 11/21/2005			
	THIS SPACE F	OR FEDERAL OR ST	ATE OFFIÇ	E USE	是可以 是第155条 的4
					ato.
Approved by Conditions of approval, if any, are attac certify that the applicant holds legal or which would entitle the applicant to co	equitable title to those rights in the su			Da	iic
Title 18 U.S.C. Section 1001 and Title States any false, fictitious and frauduler	43 U.S.C. Section 1212, make it a cri		willfully to make to	any department or ag	gency of the United

RECEIVED

(See other instructions ons reverse side)

SUBMIT IN DUPLICATE* FORM APPROVED

OMB NO. 1004-0137 Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.

UNITED STATES DEPARTMENT OF THE INTERIOR

		BURE	AU OF	LAND	MANAGEME	ENT				J-39714
WELL C	OMPLE	TION (OR RE	COM	PLETION	REPORT A	ND LOG*		6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
a. TYPE OF WORK		OU [CAS					7. UNIT AGREEMENT N	
TUNE AS WELL		OIL WELL	X	GAS WELL	DRY	Other			Sunda	ance Unit
b. TYPE OF WELL									8. FARM OR LEASE NA	ME, WELL NO.
	WORK OVER	DEEPEN		PLUG BACK	DIFF RESVR.	Other			Federa	I 13-18-9-18
. NAME OF OPERATOR	<u> </u>				<u> </u>				9. WELL NO.	
. ADDRESS AND TELEPHO	ONE NO.	Nev	wfield E	xplorat	ion Company	<u>/</u>			43-04 10. FIELD AND POOL OF	47-35585 r wildcat
					Denver, CC					Mile Flat
4. LOCATION OF WELL At Surface	(Report locat				any State requirement (SW/SW) Sec. 1				11. SEC., T., R., M., OR B OR AREA	BLOCK AND SURVEY
At top prod. Interval repor	ted below								Sec. 18	, T9S, <u>R18E</u>
At total depth			Г	4. API NO.		DATE ISSUED			12. COUNTY OR PARISE	1 13. STATE
At total depth					-047-35585	3	3/23/04		Uintah	UT
15. DATE SPUDDED 10 9/28/05	6. DATE T.D. R. 10/2	eached 23/05	17. DAT		(Ready to prod.) /17/05	18. ELEVATIONS (I		ľC.)*	5151' KB	19. ELEV. CASINGHEAD
20. TOTAL DEPTH, MD & T		21. PLUG BAC	K T.D., MD &		22. IF MULTIPI	LE COMPL	23. INTERVALS	ROT	ARY TOOLS	CABLE TOOLS
5650'			5573'		MAM WOH	Y*	DRILLED BY		×	
24. PRODUCING INTERVAL	(S), OF THIS C			M. NAME ((MD AND TVD)*		I			25. WAS DIRECTIONAL SURVEY MADE
			(Green	River 4683	'-5384'				No
26. TYPE ELECTRIC AND O	THER LOGS R	UN								27. WAS WELL CORED
Dual Induction C	Buard, SP	, Compe	nsated			ited Neutron, (, Cem	ent Bond Log	No
23. CASING SIZE/GR	ADE	WEIGHT.	LB./FT.		TH SET (MD)	HOLE SIZE	TOP OF CE		MENTING RECORD	AMOUNT PULLED
8-5/8" - J-	55	24			314'	12-1/4") sx Class "G" cmt	
5-1/2" - J-	55	15.5	D#		5619'	7-7/8"	300 sx Prem	lite II an	d 410 sx 50/50 Poz	2
29.		LINI	ER RECOF	(D			30.		TUBING RECORD	
SIZE	TOP (MD)	BOTTO	м (MD)	SACKS CEMENT	* SCREEN (MD)	2-7/8"		EOT @	PACKER SET (MD)
							2.770		5469	5334'
31. PERFORATION RECO		e and number		X X 7	CONTAILMEN	32.		, FRACT	URE, CEMENT SQUI AMOUNT AND KIND O	
INTE	(CP4) 5	375'-5384'	.4		SPF/NUMBE) 4/36		-5384'	Frac		sand in 376 bbls fluid
	<u> </u>	332'-4846'	.4		4/56	4832'-			 	sand in 846 bbls fluid
		383'-4694'		6"	4/44	4683'		Frac	w/ 63,172# 20/40 :	sand in 524 bbls fluid
		·								<u> </u>
								<u> </u>		
								<u> </u>		141.00
33.*	1	PRODUCTIO	N METHOD	(Flowing, ga	is lift, pumpingsize and	d type of pump)				STATUS (Producing or shut-in)
11/17/05	5					RHAC SM Plu	Inger Pump	AV: A 777	ERBBL	PRODUCING IGAS-OIL RATIO
DATE OF TEST	HOU	RS TESTED	CHOKE	SIZE	PROD'N, FOR TEST PERIOD	OILBBLS.		1		
30 day ave		NG PRESSURI	E CALCU	LATED	OIL-BBL	GASMCF.	5	WATER	19 BBL FOIL GRAV	250
FLOW: 10 BLNO PRESS.	()	:NO 1 KL-3-3 C KI		RRATE	1	1		1		
2 L INIONACE ION: OF CASE	S -11 1 F F -	d control as a		>				<u> </u>	TEST WITNESSER FF	CEIVED
34, DISPOSETION OF GAS (SOIG, USEG FOF IM	er, vented, etc.)	Sold	& Used	for Fuel				1121	JLIVEU
35. LIST OF ATTACHMEN	TS	_ 								2 2 2 2 2 2 2 3 5
36. Thereby certify that al	ne foregoiate in	nd attached in	formation is	complete	and correct as deteri	mined from all availab	ole records		001.05.00	
SIGNLD		ral				Reg	ulatory Spe	cialist	UV. OF QII	L, GAS 28/2/11/21/10/05
Mandie (Crozier			<u>/</u>						\

í

coveries); FORMATION	TOP	воттом	DESCRIPTION, CONTENTS, ETC.		то	P
				NAME	:	TRUE
					MEAS. DEPTH	VERT. DEPT
			Well Name	Garden Gulch Mkr	3410'	
			Federal 13-18-9-18	Garden Gulch 1	3586'	
				Garden Gulch 2	3698'	
	ļ			Point 3 Mkr	3960'	
				X Mkr	4188'	
				Y-Mkr	4299'	
				Douglas Creek Mkr	4357'	
		j		BiCarbonate Mkr	4583'	
				B Limestone Mkr Castle Peak	5154'	
				Basal Carbonate	5560'	
				Total Depth (LOGGERS)	5651'	
				Total Depth (EOGGERG	3031	
	*					
		1				



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8 1595 WYNKOOP STREET DENVER, CO 80202-1129 http://www.epa.gov/region8

NOV 2 0 2008

Ref: 8P-W-GW

<u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

Eric Sundberg Newfield Production Company 1001 Seventeenth Street, Suite 2000 Denver, CO 80202 Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

99 18F 18

Re: Final Permit

EPA UIC Permit UT21150-07849

Well: Federal 13-18-9-18 Uintah County, Utah API No.: 43-047-35585 RECEIVED NOV 2 5 2008

DIV. OF OIL, GAS & MINING

Dear Mr. Sundberg:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Federal 13-18-9-18 injection well. A Statement of Basis that discusses the conditions and requirements of this EPA UIC Permit, is also included.

The Public Comment period for this Permit ended on OCT 15 2008. No comments on the Draft Permit were received during the Public Notice period; therefore the Effective Date for this EPA UIC Permit is the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect as of the Effective Date of this Permit.

Please note that under the terms and conditions of this Final Permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the Final Permit, Part II Section C.1, and obtain written Authorization to Inject from the EPA. It is your responsibility to be familiar with and to comply with all provisions of your Final Permit. The EPA forms referenced in the permit are available at http://www.epa.gov/safewater/uic/reportingforms.html. Guidance documents for Cement Bond Logging, Radioactive Tracer testing, Step Rate testing, Mechanical Integrity demonstration, Procedure in the Event of a Mechanical Integrity Loss, and other UIC guidances, are available at http://www.epa.gov/region8/water/uic/ deep_injection.html. Upon request, hard copies of the EPA forms and guidances can be provided.



This EPA UIC Permit is issued for the operating life of the well unless terminated (Part III, Section B). The EPA may review this Permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

If you have any questions on the enclosed Final Permit or Statement of Basis, please call Emmett Schmitz of my staff at (303) 312-6174, or toll-free at (800) 227-8917, ext. 312-6174.

FOR MECOND CALL

MStephen S. Tuber

Assistant Regional Administrator

Office of Partnerships and Regulatory Assistance

enclosure:

Final UIC Permit

Statement of Basis

cc:

Letter only:

Uintah & Ouray Business Committee, Ute Indian Tribe:

Curtis Cesspooch, Chairman Irene Cuch, Vice-Chairwoman Frances Poowegup, Councilwoman

Ronald Groves, Councilman Phillip Chimburas, Councilman Steven Cesspooch, Councilman

Daniel Picard, Superintendent Uintah & Ouray Indian Agency U.S. Bureau of Indian Affairs

cc: all enclosures:

Michael Guinn District Manager Newfield Production Company Myton, Utah Larry Love Director Energy & Minerals Dept. Ute Indian Tribe

Michelle Sabori Acting Director Land Use Dept. Ute Indian Tribe

Elaine Willie Gap Coordinatorr Ute Indian Tribe

Gilbert Hunt Associate Director State of Utah - Natural Resources

Fluid Minerals Engineering Dept. U.S. Bureau of Land Management Vernal, Utah



\$EPA

UNDERGROUND INJECTION CONTROL PROGRAM PERMIT

PREPARED: November 2008

Permit No. UT21150-07849

Class II Enhanced Oil Recovery Injection Well

Federal 13-18-9-18 Uintah County, UT

Issued To

Newfield Production Company

1001 Seventeenth Street, Suite 2000 Denver, CO 80202

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AUTHORIZATION TO CONSTRUCT AND OPERATE Part I.

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit.

> Newfield Production Company 1001 Seventeenth Street, Suite 2000 Denver, CO 80202

is authorized to construct and to operate the following Class II injection well or wells:

Federal 13-18-9-18 660' FSL & 660' FWL', SWSW S18, T9S, R18E Uintah County, UT

EPA regulates the injection of fluids into injection wells so that injection does not endanger underground sources of drinking water (USDWs). EPA UIC Permit conditions are based on authorities set forth at 40 CFR Parts 144 and 146, and address potential impacts to USDWs.

Under 40 CFR Part 144, Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General permit conditions for which the content is mandatory and not subject to site-specific differences are not discussed in this document. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege, nor does it authorize injury to persons or property or invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. (40 CFR §144.35) An EPA UIC Permit may be issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR §§144.39, 144.40 and 144.41, and may be reviewed at least once every five (5) years to determine if action is required under 40 CFR §144.36(a).

This Permit is issued for the life of the well(s) unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This EPA Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for a UIC Program is delegated to an Indian Tribe or State. Upon the effective date of delegation, reports, notifications, questions and other correspondence should be directed to the Indian Tribe or State Director.

NOV 2 0 2000R Issue Date:

Effective Date ____NOV 2 0 2003

Stephen S. Tuber

Assistant Regional Administrator*

Office of Partnerships and Regulatory Assistance

*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

PART II. SPECIFIC PERMIT CONDITIONS

Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

1. Casing and Cement.

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

2. Injection Tubing and Packer.

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

- (a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and
- (b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:
 - (i) on the injection tubing; and
 - (ii) on the tubing-casing annulus (TCA); and

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- (c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure (MAIP) specified in APPENDIX C is reached at the wellhead; and
- (d) a non-resettable cumulative volume recorder attached to the injection line.

4. Well Logging and Testing

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

5. Postponement of Construction or Conversion

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of Authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or Authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate may be reissued.

6. Workovers and Alterations

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

Section B. MECHANICAL INTEGRITY

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

- (a) There is no significant leak in the casing, tubing, or packer (Part I); and
- (b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).

1. Demonstration of Mechanical Integrity (MI).

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are available from EPA and will be provided upon request.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

3. Notification Prior to Testing.

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

4. Loss of Mechanical Integrity.

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit) and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

Section C. WELL OPERATION

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

1. Requirements Prior to Commencing Injection.

Well injection, including for new wells authorized by an Area Permit under 40 CFR 144.33 (c), may commence only after all well construction and pre-injection requirements herein have been met and approved. The Permittee may not commence injection until construction is complete, and

- (a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-10 or 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and
 - (i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or
 - (ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

2. Injection Interval.

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

3. Injection Pressure Limitation

- (a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injection or formation fluids into a USDW.
- (b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permitee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

4. Injection Volume Limitation.

Injection volume is limited to the total volume specified in APPENDIX C.

5. Injection Fluid Limitation.

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved for injection. This well is NOT approved for commercial brine injection, industrial waste fluid disposal or injection of hazardous waste as defined by CFR 40 Part 261. The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

6. Tubing-Casing Annulus (TCA)

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Monitoring Parameters, Frequency, Records and Reports.

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

- (a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;
- (b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;
- (c) the analytical techniques or methods used for analysis.

2. Monitoring Methods.

(a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.

- (b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.
- (c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.
- (d) Pressures are to be measured in pounds per square inch (psi).
- (e) Fluid volumes are to be measured in standard oil field barrels (bbl).
- (f) Fluid rates are to be measured in barrels per day (bbl/day).

3. Records Retention.

- (a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.
- (b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.

4. Annual Reports.

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

Section E. PLUGGING AND ABANDONMENT

1. Notification of Well Abandonment, Conversion or Closure.

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which isolates the injection zone and prevents the movement of fluids into or between underground sources of drinking water, and in accordance with 40 CFR 146.10 and other applicable Federal, State or local law or regulations. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director.

3. Approved Plugging and Abandonment Plan.

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

4. Forty Five (45) Day Notice of Plugging and Abandonment.

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abanonment plan.

5. Plugging and Abandonment Report.

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

- (a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or
- (b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

6. Inactive Wells.

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

- (a) Provides written notice to the Director;
- (b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and
- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

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PART III. CONDITIONS APPLICABLE TO ALL PERMITS

Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of any other Federal, State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

Section B. CHANGES TO PERMIT CONDITIONS

1. Modification, Reissuance, or Termination.

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

2. Conversions.

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

3. Transfer of Permit.

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

4. Permittee Change of Address.

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

5. Construction Changes, Workovers, Logging and Testing Data

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging, or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this Permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

Section C. SEVERABILITY

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

Section D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

Section E. GENERAL PERMIT REQUIREMENTS

1. Duty to Comply.

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

2. Duty to Reapply.

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

3. Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

4. Duty to Mitigate.

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

5. Proper Operation and Maintenance.

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

6. Permit Actions.

This Permit may be modified, revoked and reissued or teminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. Property Rights.

This Permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information.

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

9. Inspection and Entry.

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

10. Signatory Requirements.

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

11. Reporting Requirements.

- (a) Planned changes. The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.
- (b) Anticipated noncompliance. The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) Monitoring Reports. Monitoring results shall be reported at the intervals specified in this Permit.
- (d) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- (e) Twenty-four hour reporting. The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:
 - (i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or
 - (ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- (f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website http://www.nrc.uscg.mil/index.htm.
- (g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.
- (h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

Section F. FINANCIAL RESPONSIBILITY

1. Method of Providing Financial Responsibility.

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

2. Insolvency.

In the event of:

- (a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or
- (b) suspension or revocation of the authority of the trustee institution to act as trustee; or

(c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

APPENDIX A

WELL CONSTRUCTION REQUIREMENTS

See diagram.

The Federal No. 13-18-9-18 was drilled to a total depth of 5650 feet (KB) feet in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 314 feet in a 12-1/4 inch hole using 160 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 5619 feet (KB) in a 7-7/8 inch hole with 300 sacks of Premium Lite II and 410 sacks of 50/50 poz mix. This well construction is considered adequate to protect USDWs.

EPA calculates the top of cement as 1050 feet from the surface. The Cement Bond Log (CBL) identifies top of cement at 150 feet. CBL analysis does identify adequate 80% bond index cement bond within the Confining Zone.

The schematic diagram shows enhanced recovery injection perforations in the Douglas Creek Member of the Green River Formation. Additional perforations may be added at a later time between the depths of 3412 feet and the top of the Wasatch Formation (Estimated to be 5685 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

(1721150-07849 Federal 13-18-9-18

Spud Date: 09-28-05 Put on Production: 11-17-05 GL: 5139' KB: 5151'

Proposed Injection Wellbore Diagram

Initial Production: 20 BOPD, 5 MCFD, 19 BWPD

SURFACE CASING

Cement top @ 150'

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

WEIGHT: 24#
LENGTH: 7 jis (304,22')
DEPTH LANDED: 314,22' KB / EPA

HOLE SIZE:12-1/4" Green River
CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

< 890°

1122

PRODUCTION CASING

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 129 jts. (5620.59')

DEPTH LANDED: 5618.59' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Prem. Lite II mixed & 410 sxs 50/50 POZ.

80% Bond 3118- 4282

SIZE/GRADE/WT .: 2-7/8" / J-55 / 6.5#

NO. OF JOINTS: 165 jts (5322.02')

TUBING ANCHOR: 5334.02' KB

NO. OF JOINTS: 1 jts (65.08')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 5401,90' KB

NO. OF JOINTS: 2 jts (65.06').

TOTAL STRING LENGTH: EOT @ 5468.51' KB

FRAC JOB

11-14-05 5375-5384

Frac CP4 sands as follows:

30360# 20/40 sand in 376 bbls Lightning 17 frac fluid. Treated @ avg press of 1733 psi w/avg rate of 24.8 BPM. ISIP 1685 psi. Calc flush: 5373 gal. Actual flush: 5120 gal.

11-14-05 4832-4846 Frac A1 sands as follows:

59951# 20/40 sand in 486 bbls Lightning 17 frac fluid. Treated @ avg press of 1658 psi w/avg rate of 24.8 BPM. ISIP 1890 psi. Calc

flush: 4830 gal. Actual flush: 4582 gal.

11-14-05 4683-4694*

Frac B2 sands as follows:

63172# 20/40 sand in 524 bbls Lightning 17 frac fluid. Treated @ avg press of 1958 psi w/avg rate of 24.9 BPM, ISIP 2250 psi, Calc flush: 4681 gal. Actual flush: 4578 gal.

2602 Tronz

2648-2664 Mohogany Bench

3345-3412 Confining Zone 3412 Garden Gylch

4358 Douglas Creek

4683-4694

4832-4846

PERFORATION RECORD

11-04-05 5375-5384' 4 JSPF 36 holes

11-14-05 4832-4846' 4 JSPF 56 holes 11-14-05 4683-4694' 4 JSPF

5154- 5171 Caste Peals

5375-5384

PBTD@5575 560 Basel Carbonale

SHOE @ 5619'

NEWFIELD

Federal 13-18-9-18

660' FSL & 660' FWL SW/SW Section 18-T9S-R18E

Uintah Co, Utah

API #43-047-35585; Lease #UTU-39714

APPENDIX B

LOGGING AND TESTING REQUIREMENTS

Logs.

Logs will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

NO LOGGING REQUIREMENTS

Tests.

Tests will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

TYPE OF TEST	DATE DUE
Step Rate Test	Within a 180-day period following commencement of injection.
Standard Annulus Pressure	Pior to receiving authorization to inject and at least once every five (5) years after the last successful test
Pore Pressure	Prior to receiving authorization to inject.

APPENDIX C

OPERATING REQUIREMENTS

MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

	MAXIMUM ALLOWED INJECTION PRESSURE (psi)
WELL NAME	ZONE 1 (Upper)
Federal 13-18-9-18	985

INJECTION INTERVAL(S):

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

/ELL NAME: Federal 13-18-9-18		postojn dija. I dija rokujuju najvojnomo ir maro maro ka kolini kali Malik. Alika kaliji valika kalika sa kolini
	APPROVED INJECTION INTERVAL (KB, ft)	FRACTURE GRADIENT
FORMATION NAME	TOP BOTTOM	(psi/ft)
Green River	3,412.00 - 5,685.00	0.650

ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

MAXIMUM INJECTION VOLUME:

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.

APPENDIX D

MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

OBSERVE I	MONTHLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS
	Injection pressure (psig)
OBSERVE AND	Annulus pressure(s) (psig)
RECORD	Injection rate (bbl/day)
I TESONS	Fluid volume injected since the well began injecting (bbls)

	ANNUALLY
	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
ANALYZE	Injected fluid specific conductivity
	Injected fluid pH

	ANNUALLY
	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and minimum annulus pressure(s) (psig)
DEDORT	Each month's injected volume (bbl)
REPORT	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

Records of all monitoring activities must be retained and made available for inspection at the following location:

Newfield Exploration Company 1001 Seventeenth Street - Suite 2000 Denver, CO 80202

APPENDIX E

PLUGGING AND ABANDONMENT REQUIREMENTS

See diagram.

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale approximately 2550 feet to 2715 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 165-foot balanced cement plug inside the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale, approximately 2550 feet to 2715 feet.

PLUG NO. 3: Seal USDWs: Squeeze a cement plug (1070 feet - 1170 feet) on the backside of the 5-1/2 inch casing across the base of the Uinta formation (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 100-foot balanced cement plug inside the 5-1/2 inch casing across the base of the Uinta Formation, approximately 1070 feet to 1170 feet.

PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 940 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

. Hackment Q-:

Federal 13-18-9-18

Spud Date: 09-28-05 Put on Production: 11-17-05 GL: 5139' KB: 5151'

Proposed P & A Wellbore Diagram

Rump 42 sx Class G Cement down 5 -1/2" casing to 364' SURFACE CASING Cement top @ 150'-CSG SIZE: 8-5/8" GRADE: J-55 940 WEIGHT: 24# LENGTH: 7 jts (304.22') DEPTH LANDED: 314.22' KB HOLE SIZE: 12-1/4" CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf. 1075-1170 Cement Plug Green River 1122 PRODUCTION CASING CSG SIZE: 5-1/2" GRADE: J-55 WEIGHT: 15.5# DEPTH LANDED: 5618.59' KB CENENT Plug 2.550 -2715 2648-2664 Mahogany Bench CEMENT DATA: 300 sxs Prem. Lite II mixed & 410 sxs 50/50 POZ. CEMENT TOP AT: 150' 50 Thous for Perf 4832-4846 5375 5384

PBTD @ 5573°

SHOE @ 5619

TD @ 5650

NEWFIELD

Federal 13-18-9-18

660' FSL & 660' FWL

SW/SW Section 18-T9S-R18E

Uintah Co, Utah

API #43-047-35585; Lease #UTU-39714

APPENDIX F

CORRECTIVE ACTION REQUIREMENTS

No corrective action is deemed necessary for this project.

STATEMENT OF BASIS

NEWFIELD PRODUCTION COMPANY FEDERAL 13-18-9-18 UINTAH COUNTY, UT

EPA PERMIT NO. UT21150-07849

CONTACT: Emmett Schmitz

U. S. Environmental Protection Agency

Ground Water Program, 8P-W-GW

1595 Wynkoop Street

Denver, Colorado 80202-1129

Telephone: 1-800-227-8917 ext. 312-6174

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

EPA UIC permits regulate the injection of fluids into underground injection wells so that the injection does not endanger underground sources of drinking water. EPA UIC permit conditions are based upon the authorities set forth in regulatory provisions at 40 CFR Parts 144 and 146, and address potential impacts to underground sources of drinking water. Under 40 CFR 144.35 Issuance of this permit does not convey any property rights of any sort or any exclusive privilege, nor authorize injury to persons or property of invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which the content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the construction and operation of injection wells so that the injection does not endanger underground sources of drinking water, governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

PART I. General Information and Description of Facility

Newfield Production Company 1001 Seventeenth Street, Suite 2000 Denver CO 80202

on

June 25, 2007

submitted an application for an Underground Injection Control (UIC) Program Permit or Permit Modification for the following injection well or wells:

> Federal 13-18-9-18 660' FSL & 660' FWL', SWSW S18, T9S, R18E Uintah County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The application, including the required information and data necessary to issue or modify a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed and determined by EPA to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

The Federal No. 13-18-9-18 is currently an active Green River Formation, Douglas Creek Member, oil well. It is the initial intent of the applicant to use the current production perforations for Class II enhanced recovery injection. The Federal No. 13-18-9-18 has total depth in the Basal Carbonate Member.

	TABLE 1.1	
WELL ST	ATUS / DATE OF OPERA	TION
	NEW WELLS	
Well Name	Well Status	Date of Operation
Federal 13-18-9-18	New	N/A

FINAL PERMIT

PART II. Permit Considerations (40 CFR 146.24)

Hydrogeologic Setting

Water wells for domestic supply in this area, when present, generally are completed into the shallow alluvium, the Duchesne River Formation, or the underlying Uinta Formation, and the water generally contains approximately 500 to 1,500 mg/l and higher total dissolved solids.

The Uinta-Animas aquifer in the Uinta Basin is present in water-yielding beds of sandstone, conglomerate, and siltstone of the Duchesne River and Uinta Formations, the Renegade Tongue of the Wasatch Formation, and the Douglas Creek Member of the Green River Formation. The Renegade Tongue of the Wasatch Formation and the Douglas Creek Member of the Green River Formation contain an aquifer along the southern and eastern margins of the basin where the rocks primarily consist of fluvial, massive, irregularly bedded sandstone and siltstone. Water-yielding units in the Uinta-Animas aguifer in the Uinta Basin commonly are separated from each other and from the underlying Mesaverde aquifer by units of low permeability composed of claystone, shale, marlstone, or limestone. In the Uinta Basin, for example, the part of the aquifer in the Duchesne River and Uinta Formations ranges in thickness from 0 feet at the southern margin of the aquifer to as much as 9,000 feet in the north-central part of the aquifer. Ground-water recharge to the Uinta-Animas aguifer generally occurs in the areas of higher altitude along the margins of the basin. Ground water is discharged mainly to streams, springs, and by transpiration from vegetation growing along stream valleys. The rate of ground-water withdrawal is small, and natural discharge is approximately equal to recharge. Recharge occurs near the southern margin of the aquifer, and discharge occurs near the White and Green Rivers (from USGS publication HA 730-C). Water samples from Mesaverde sands in the nearby Natural Buttes Unit yielded highly saline water.

Geologic Setting (TABLE 2.1)

The proposed enhanced oil recovery injection well is located in the Greater Monument Butte Field, T7-9S and R15-19E, which lies near the center of the broad, gently northward dipping south flank of the Uinta Basin. More than 450 million barrels of oil (63 MT) have been produced from sediments of the Uinta Basin. The Uinta Basin is a topographic and structural trough encompassing an area of more than 9300 square mi (14,900 km) in northeast Utah. The basin is sharply asymmetrical, with a steep north flank bounded by the east-west-trending Uinta Mountains. and a gently dipping south flank. The Uinta Basin was formed in Paleocene to Eocene time, creating a large area of internal drainage which was filled by the ancestral Lake Uinta. The lacustrine, or fresh water lake-formed, sediments deposited in and around Lake Uinta make up the Uintah and Green River Formations. The southern shore of Lake Uinta was very broad and flat, resulting in large cyclic shifts of the location of the shoreline during the many repeated transgressive and regressive cycles caused by the climatic and tectonic-induced rise and fall of water levels of the lake. Distributary-mouth bars, distributary channels, and near-shore bars are the primary oil producing sandstone reservoirs in the area. (Ref: "Reservoir Characterization of the Lower Green River Formation, Southwest Uinta Basin, Utah Biannual Technical Progress Report, 4/1/99-9/30/99", by C. D. Morgan, Program Manager, November 1999, Contract DE-AC26-98BC15103).

The Duchesne River Formation is absent in this area. Shale and siltstone of the Uinta Formation outcrop and compose the surface rock throughout the area. The lower 600 feet to 800 feet of the Uinta Formation, consisting generally of shale interbedded with occasionally water-bearing sandstone lenses between 5 feet to 20 feet thick, is underlain by the Green River Formation. The

Green River Formation is further subdivided into several Member and local marker units. The cyclic nature of Green River deposition in the southern shore area resulted in numerous stacked, intertonguing deltaic and near-shore sand and silt deposits. Red alluvial shale and siltstone deposits that intertongue with the Green River sediments are of the Colton and Wasatch Formations. Under the Wasatch Formation is the Mesaverde Formation, which consists primarily of continental-origin deposits of interbedded shale, sandstone, and coal.

The geologic dip is about 200 feet per mile, and there are no known surface faults in this area. Veins of gilsonite, a natural resinous hydrocarbon occasionally mined as a resource, occurs in the greater Uintah Basin though it is predominantly found on the eastern margin of the basin near the Colorado border. Vertical veins, generally between 2 ft to 6 ft wide but up to 28 ft wide, may extend many miles in length and occasionally extend as deep as 2000 ft. In this area within the Greater Monument Butte Field there is one known gilsonite vein. This vein is not considered to present a pathway for migration of fluid out of the injection zone because it terminates at depth of about 2000 ft, far above the protective confining layer and much deeper injection zone. Newfield and the owner of this former gilsonite mine have agreed to conditions for operation near this vein to ensure no potential for impact to this vein or to ground water from enhanced oil recovery operations.

TABLE 2.1 GEOLOGIC SETTING

Federal 13-18-9-18

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Uinta: USDW	0	890	< 10,000	Sand and shale.
Uinta	890	1,122		Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.
Green River	1,122	3,412		Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.
Green River: Trona	2,602	2,648		Evaporite
Green River: Mahogany Bench	2,648	2,664		Oil shale
Green River: Garden Gulch Member	3,412	4,358		Interbedded lacustrine sand, shale and carbonate with fluvial sand and shale.
Green River: Douglas Creek Member	4,358	5,560	34,217	Interbedded sand, shale and carbonate with fluvial sand and shale.
Green River: Castle Peak Marker	5,154	5,171		Carbonate
Gren River: Basal Carbonate Member	5,560	5,685		Carbonate

Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by a confining zone which is free of known open faults or fractures within the Area of Review.

The EPA approved interval for Class II enhanced recovery injection is located between the top of the Garden Gulch Member (3412 feet) and the Wasatch Formation estimated at 5685 feet.

TABLE 2.2 INJECTION ZONES

Federal 13-18-9-18

				Fracture Gradient		
Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	(psi/ft)	Porosity	Exempted?*
Green River	3,412	5,685	34,217	0.650		N/A
* C - Currently Exempte E - Previously Exempt P - Proposed Exemption N/A - Not Applicable	ed					

Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

The 67-foot shale Confining Zone directly overlies the top of the Garden Gulch Member.

TABLE 2.3 CONFINING ZONES Federal 13-18-9-18 Ton (

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Green River	Shale	3,345	3,412

Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

Throughout the Greater Monument Butte Field area undergoing enhanced oil recovery operations, water analyses of the Green River Formation generally exhibit total dissolved solids (TDS) content well in excess of 10,000 mg/l. However, some recent water analyses from the field showed lower TDS values closer to 10,000 mg/l. While rain and surface water recharge into Green River Formation outcrops further south along the Book Cliffs/Roan Cliffs in effect "freshens" the Green River Formation water near those outcrops, in this area of the Monument Butte Field the observed occasional 'freshening' is ascribed to the effective dilution of the originally in-place high TDS water from injection of relatively fresh water for enhanced oil recovery operations. Water samples from deeper Mesaverde Formation sands in the nearby Natural Buttes Unit yield highly saline water.

The State of Utah "Water Wells and Springs" identifies no public water supply wells within the one-quarter (1/4) mile Area-of-Review (AOR) around the Federal No. 13-18-9-18.

FINAL PERMIT

Technical Publication No. 92: State of Utah, Department of Natural Resources, cites the base of Underground Sources of Drinking Water (USDW) in the Uinta Formation approximately 890 feet from the surface. Absent definitive information relative to the water quality of the Uinta Formation, from the depth of 890 feet to the base of the Uinta Formation (1122 feet), the EPA will require, during plugging and abandonment, a cement plug at the base of the Uinta Formation to prevent contamination of possible Uinta USDWs.

TABLE 2.4 UNDERGROUND SOURCES OF DRINKING WATER (USDW)

Federal 13-18-9-18

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uinta	Sand and shale.	0	890	< 10,000
Uinta	Sand and shale.	890	1,122	

PART III. Well Construction (40 CFR 146.22)

The Federal No. 13-18-9-18 was drilled to a total depth of 5650 feet (KB) feet in the Basal Carbonate Member of the Green River Formation.

Surface casing (8-5/8 inch) was set at a depth of 314 feet in a 12-1/4 inch hole using 160 sacks of Class "G" cement which was circulated to the surface.

Production casing (5-1/2 inch) was set at a depth of 5619 feet (KB) in a 7-7/8 inch hole with 300 sacks of Premium Lite II and 410 sacks of 50/50 poz mix. This well construction is considered adequate to protect USDWs.

EPA calculates the top of cement as 1050 feet from the surface. The Cement Bond Log (CBL) identifies top of cement at 150 feet. CBL analysis does identify adequate 80% bond index cement bond within the Confining Zone.

The schematic diagram shows enhanced recovery injection perforations in the Douglas Creek Member of the Green River Formation. Additional perforations may be added at a later time between the depths of 3412 feet and the top of the Wasatch Formation (Estimated to be 5685 feet) provided the operator first notifies the Director and later submits an updated well completion report (EPA Form 7520-12) and schematic diagram.

The packer will be set no higher than 100 feet above the top perforation.

TABLE 3.1 WELL CONSTRUCTION REQUIREMENTS

Federal 13-18-9-18

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Production	7.88	5.50	0 - 5,619	150 - 5,650
Surface	12.25	8.63	0 - 314	0 - 314

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

Casing and Cementing (TABLE 3.1)

The well construction plan was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction details for this "new" injection well is shown in TABLE 3.1.

Remedial cementing may be required if the casing cement is shown to be inadequate by cement bond log or other demonstration of Part II (External) mechanical integrity.

Tubing and Packer

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

Tubing-Casing Annulus (TCA)

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

The tubing/casing annulus must be kept closed at all times so that it can be monitored as required under conditions of the Permit.

Monitoring Devices

The permittee will be required to install and maintain wellhead equipment that allows for monitoring pressures and providing access for sampling the injected fluid. Required equipment may include but is not limited to: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) fittings or pressure gauges attached to the injection tubing and the TCA for monitoring the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

8

PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

TABLE 4.1 AOR AND CORRECTIVE ACTION Total TOC CAP Status (Abandoned Y/N) Depth (ft) Required (Y/N) Depth (ft) Well Name Type 5.729 604 Producer No No Federal 16-13-9-17

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

Area Of Review

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

Corrective Action Plan

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

PART V. Well Operation Requirements (40 CFR 146.23)

	TABLE 5.1		
· · · · · · · · · · · · · · · · · · ·		D=0	
INJEC	TION ZONE PRESSU	RES	
	Federal 13-18-9-18		·
	Depth Used	Fracture	
	to Calculate	Gradient	Initial MAIP
Formation Name	MAIP (ft)	(psi/ft)	(psi)
Green River	4,683	0.650	985

Approved Injection Fluid

The approved injection fluid is limited to Class II injection well fluids pursuant to 40 CFR § 144.6(b). For disposal wells injecting water brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production, the fluid may be commingled and

the well used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Injection of non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes, and vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste, is prohibited.

The proposed injectate will be a blend of culinary/quality water from the Johnson Water District Reservoir and/ or water via the Green River pipeline, and water produced from Green River Formation wells proximate to the Federal No. 13-18-9-18.

Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit.

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

FP = formation fracture pressure (measured at surface)

fg = fracture gradient (from submitted data or tests)

sg = specific gravity (of injected fluid)

d = depth to top of injection zone (or top perforation)

Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

There will be no restrictions on the cumulative volume or daily volume of authorized Class II fluid to be injected into the approved Green River Formation interval. The Permittee will not exceed the maximum allowable injection pressure.

Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

- 1. there is no significant leak in the casing, tubing, or packer (Part I); and
- 2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependent upon well-specific conditions as explained below.

Well construction and site-specific conditions dictate the following requirements for Mechanical Integrity (MI) demonstrations:

PART I MI: Internal MI will be demonstrated prior to beginning injection. Since this well is constructed with a standard casing, tubing, and packer configuration, a successful mechanical integrity test (MIT) is required to take place at least once every five (5) years. A demonstration of Part I MI is also required prior to resuming injection following any workover operation that affects the casing, tubing or packer. Part I MI may be demonstrated by a standard tubing-casing annulus pressure test using the maximum permitted injection pressure or 1000 psi, which ever is less, with a ten (10) percent or less pressure loss over thirty (30) minutes.

PART VI. Monitoring, Recordkeeping and Reporting Requirements

Injection Well Monitoring Program

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, annulus pressure, monthly injection flow rate and cumulative fluid volume. This information is required to be reported annually as part of the Annual Report to the Director.

PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

Plugging and Abandonment Plan

Prior to abandonment, the well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs, and in accordance with any applicable Federal, State or local law or regulation. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.6 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520 13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. The plugging and abandonment plan is described in Appendix E of the Permit.

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable Federal, State or local law or regulation. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs. However, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record

must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

PLUG NO. 1: Seal Injection Zone: Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top injection perforation. Place at least twenty (20) feet of cement plug on top of the CIBP.

PLUG NO. 2: Seal Mahogany Shale and Trona intervals: Squeeze a cement plug on the backside of the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale approximately 2550 feet to 2715 feet (unless pre-existing backside cement precludes cement-squeezing this interval) followed by a minimum 165-foot balanced cement plug inside the 5-1/2 inch casing across the Trona Zone and the Mahogany Shale, approximately 2550 feet to 2715 feet.

PLUG NO. 3: Seal USDWs: Squeeze a cement plug (1070 feet - 1170 feet) on the backside of the 5-1/2 inch casing across the base of the Uinta formation (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 100-foot balanced cement plug inside the 5-1/2 inch casing across the base of the Uinta Formation, approximately 1070 feet to 1170 feet.

PLUG NO.4: Seal Surface: Set a Class "G" cement plug within the 5-1/2 inch casing to 940 feet and up the 5-1/2 inch by 8-5/8 inch casings annulus to the surface.

PART VIII. Financial Responsibility (40 CFR 144.52)

Demonstration of Financial Responsibility

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

F	Financial Statement that was reviewed and approved by the EPA June 27, 2008.
£	
	Financial Statement, received April 22, 2005

Evidence of continuing financial responsibility is required to be submitted to the Director annually.

STATE OF UTAH

SIGNATURE

(This space for State use only)

DEPARTMENT OF NATURAL RESOURCES 5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL, GAS AND MINING USA UTU-39714 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SUNDRY NOTICES AND REPORTS ON WELLS 7. UNIT or CA AGREEMENT NAME: Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged SUNDANCE UNIT wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 8 WELL NAME and NUMBER 1. TYPE OF WELL: OIL WELL GAS WELL OTHER FEDERAL 13-18-9-18 9. API NUMBER: 2. NAME OF OPERATOR: 4304735585 NEWFIELD PRODUCTION COMPANY 10. FIELD AND POOL, OR WILDCAT: 3. ADDRESS OF OPERATOR: PHONE NUMBER ZIP 84052 435.646.3721 MONUMENT BUTTE Route 3 Box 3630 STATE UT CITY Myton 4. LOCATION OF WELL: COUNTY: UINTAH FOOTAGES AT SURFACE: 660 FSL 660 FWL UT OTR/OTR. SECTION. TOWNSHIP, RANGE, MERIDIAN: SWSW, 18, T9S, R18E STATE: CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION ACIDIZE DEEPEN REPERFORATE CURRENT FORMATION ■ NOTICE OF INTENT FRACTURE TREAT SIDETRACK TO REPAIR WELL ALTER CASING (Submit in Duplicate) NEW CONSTRUCTION TEMPORARITLY ABANDON CASING REPAIR Approximate date work will CHANGE TO PREVIOUS PLANS OPERATOR CHANGE TUBING REPAIR PLUG AND ABANDON VENT OR FLAIR CHANGE TUBING ■ SUBSEOUENT REPORT CHANGE WELL NAME PLUG BACK WATER DISPOSAL (Submit Original Form Only) PRODUCTION (START/STOP) WATER SHUT-OFF X CHANGE WELL STATUS Date of Work Completion: COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE OTHER: -06/24/2009 X CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The subject well has been converted from a producing oil well to an injection well on 06/18/09. Three new intervals were added, the C sds 4526'-4532' 3 JSPF 18 shots, CP1 sds 5231'-5234' 3 JSPF 9 shots, and the CP2 sds 5263'-5268' 3 JSPF 15 shot. On 05/18/09 Steven Pratt with the EPA was contacted concerning the initial MIT on the above listed well. Permission was given at that time to perform the test on 05/26/09. On 06/23/09 the casing was pressured up to 1440 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT21150-07849 API# 43-047-35585 Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY NAME (PLEASE PRINT)_ Jentri Park TITLE Production Tech

DATE 06/24/2009

JUN 2 9 2009

Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test U.S. Environmental Protection Agency

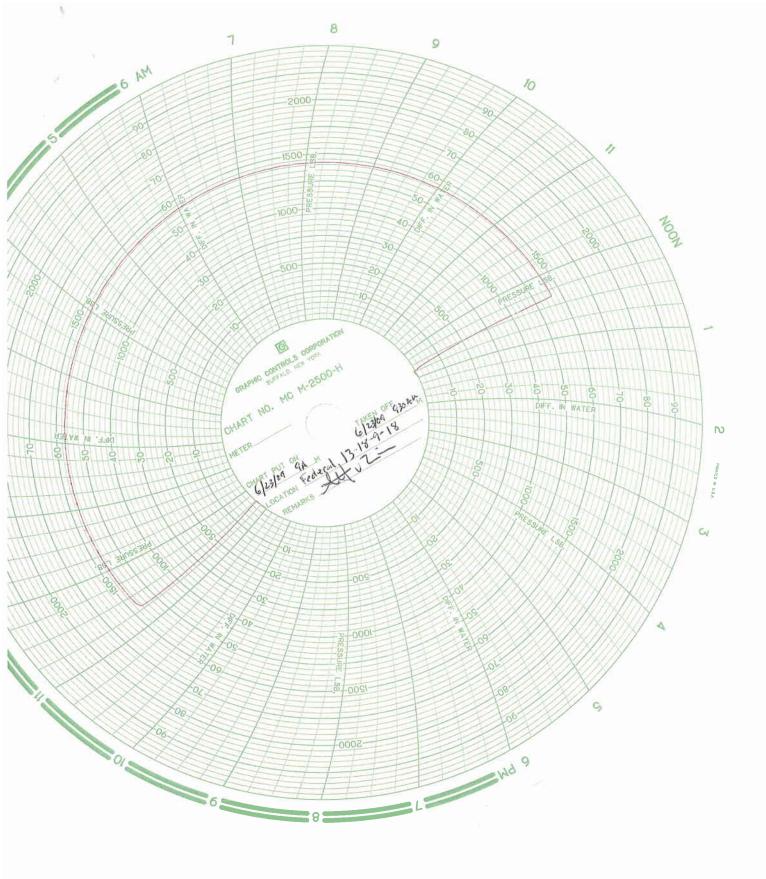
Underground Injection Control Program 999 18th Street; Suite 500 Denver, CO 80202-2466

EPA Witness:			Date: _	6 1 23	12009		
Test conducted by: Alfre	Test conducted by: Alfrede Rios						
Others present:							
Well Name: Federal 13-18-9-18 Type: ER SWD Status: AC TA UC							
rias Man L Pers	مــــــــــــــــــــــــــــــــــــ				. \ \		
Location: Fale 13-18 Fr	: 18 T 9 N	1/ S) R <u>↓</u> 1	E/W County:	<u>Uintah</u>	State: Utah		
Operator: Newfield							
Last MIT:/	_/ Maxi	mum Allow	able Pressure:		PSIG		
Is this a regularly scheduled test? [] Yes [X] No Initial test for permit? [X] Yes [X] No Test after well rework? [] Yes [X] No Well injecting during test? [] Yes [X] No If Yes, rate:bpd							
Pre-test casing/tubing annulus pressure: psig							
MIT DATA TABLE	Test #1		Test #2		Test #3		
TUBING	PRESSURE						
Initial Pressure	Ø	psig		psig	psią		
End of test pressure	Ø	psig		psig	psiį		
CASING / TUBING	ANNULUS		PRESSURE				
0 minutes	1440	psig		psig	psi		
5 minutes	1440	psig		psig	psi		
10 minutes	1440	psig		psig	psi		
15 minutes	1440	psig		psig	psi		
20 minutes	1440	psig		psig	psi		
25 minutes	1440	psig		psig	psi		
30 minutes	1440	psig		psig	psi		
minutes		psig		psig	psi		
minutes		psig		psig	psi		
RESULT	[.] Pass	[-]Fail	[] Pass	[]Fail	[] Pass []Fail		

Does the annulus pressure build back up after the test ? [] Yes MECHANICAL INTEGRITY PRÉSSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

	
Signature of Witness:	





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

JUL 0 8 2009

Ref: 8P-W-GW

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Michael Guinn District Manager Newfield Production Company Route 3 - Box 3630 Myton, UT 84052 Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RE: Authority to Commence Injection
Minor Permit Modification No. 1
Reduce MAIP No. 1
EPA UIC Permit UT21150-07849
Federal No. 13-18-9-18
Uintah County, Utah
API #: 43-047-35585
95 18E 18

Dear Mr. Guinn:

Newfield Production Company (Newfield) has satisfactorily completed Environmental Protection Agency (EPA) Prior to Commencing Injection requirements for Final Permit, UT21150-07849, effective November 20, 2008. The Part I (Internal) Mechanical Integrity Test (MIT), Well Rework Record (EPA Form No. 7520-12), schematic diagram, and pore pressure, were reviewed and approved by EPA on July 6, 2009.

Based upon structurally higher injection perforations post-conversion authorization, Newfield is authorized to commence injection, as of the date of this letter, into Federal No. 13-18-9-18 at a reduced maximum surface allowable injection pressure (MAIP) of 950 psig. Until such time as the Permittee demonstrates through a Step Rate Test (SRT) that the Fracture Gradient (FG) is other than 0.650 psi/ft, or the structurally highest injection perforation is not 4,526 feet, Federal No. 13-18-9-18 shall be operated at a MAIP no greater than 950 psig.

JUL 1 6 2009

DIV. OF OIL, GAS & MINING

As of this approval, responsibility for permit compliance and enforcement is transferred to Region 8 UIC Technical Enforcement Program office. Therefore, please direct all monitoring and compliance correspondence to the following address, referencing your well name and UIC Permit number on all correspondence regarding this well to:

Mr. Nathan Wiser
Technical Enforcement Program – UIC
U.S. EPA Region 8: Mail Code 8ENF-UFO
1595 Wynkoop Street
Denver, CO 80202-1129

Or, you may reach Mr. Wiser by telephone at 303-312-6211, or 1 800-227-8927, ext. 312-6211.

Please remember that it is your responsibility to be aware of and to comply with all conditions of injection well Permit UT21103-07425.

If you have questions regarding the above action, please call Emmett Schmitz at 303-312-6174 or 1-800-227-8917, ext. 312-6174.

Sincerely,

Steven Pratt, P.E., CAPM (Inactive)

Director

Ground Water Program

cc: Uintah & Ouray Business Committee, Ute Indian Tribe
Curtis Cesspooch, Chairman
Irene Cuch, Vice-Chairwoman
Frances Poowegup, Councilwoman
Ronald Groves, Councilman
Phillip Chimburas, Councilman
Steven Cesspooch, Councilman

Daniel Picard, Superintendent Uintah & Ouray Indian Agency U.S. Bureau of Indian Affairs

Eric Sundberg Newfield Production Company Denver, CO Larry Love Director Energy & Minerals Dept. Ute Indian Tribe

Ferron Secakuku Director Natural Resources Ute Indian Tribe

Gilbert Hunt Associate Director State of Utah – Division of Oil, Gas & Mining

Fluid Minerals Engineering Dept. U.S. Bureau of Land Management Vernal, Utah

RM 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OMB No. 1004-0137 Expires: July 31,2010

Lease Serial No.

USA UTU-39714

SUNDRY N	OTICES AND REPORTS ON WELLS	
Do not use this	form for proposals to drill or to re-enter a	ın
abandoned well.	Use Form 3160-3 (APD) for such proposa	als

SUBMIT IN TRIPLICATE - Other Instructions on page 2

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

FORM APPROVED

				SUNDANCE U	NIT
1. Type of Well Oil Well Gas Well Name of Operator	Other			8. Well Name and FEDERAL 13-1	
NEWFIELD PRODUCTION CC 3a. Address Route 3 Box 3630 Myton, UT 84052 Location of Well (Footage, 26060 FSL 660 FWL)	OMPANY Sec., T., R., M., or Survey Descrip	3b. Phone (include are code) 435.646.3721 (ption)		9. API Well No. 4304735585 10. Field and Poo MONUMENT I 11. County or Par	· · · · · · · · · · · · · · · · · · ·
SWSW Section 18 T9S R18E	A A DDD ODDIA TED DOM/EN	C) TO DUDIO TE NA	TUDE OF M	UINTAH, UT	PLEATE A TA
TYPE OF SUBMISSION	C APPROPRIATE BOX(ES		E OF ACTION	OTICE, OR OT	HERDATA
Notice of Intent Subsequent Report Final Abandonment	Acidize Alter Casing Casing Repair Change Plans Convert to Injector	Deepen Fracture Treat New Construction Plug & Abandon Plug Back	Reclamati	ily Abandon	Water Shut-Off Well Integrity Other Change status, put well on injection.
Describe Proposed or Completed Op- proposal is to deepen directionally of	peration: (Clearly state all pertinent det or recomplete horizontally, give subsuri				

Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final

The above reference well was put on injection at 3:00 PM on 7-15-09.

States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

UT 21150-07849

Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY

I hereby certify that the foregoing is true and	Title	4·4		
correct (Printed/ Typed)				
Kathy Chapman	Office Manager			
Signature	Date			
Sother han 07/16/2009				
THIS SPACE FOR FED	ERAL OR STATE OFFIC	CE USE		
Approved by	Title	Date		
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office		1 100 1 11 11 11 11	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any p	erson knowingly and willfully to make to	any department or agency of the United		

(Instructions on page 2)

JUL 2 0 2009

FORM 3160-5

LIMITED STATES

Do not us	DEPARTMENT OF THE BUREAU OF LAND MAN RY NOTICES AND REP e this form for proposals well. Use Form 3160-3 (A	INTERIOR AGEMENT ORTS ON WELL to drill or to re-enter an	5. Lease Serial N USA UTU-397	
SUBMIT 1. Type of Well Oil Well Gas Well 2. Name of Operator NEWFIELD PRODUCTION	Other	Instructions on page 2	GMBU CTB10 8. Well Name and FEDERAL 13-1	
3a. Address Route 3 Box 363 Myton, UT 8405	0 2 ge, Sec., T., R., M., or Survey Desc	de) 4304735585 10. Field and Poo MONUMENT I	10. Field and Pool, or Exploratory Area MONUMENT BUTTE 11. County or Parish, State	
12. CHE	CK APPROPRIATE BOX	ES) TO INIDICATE NATU TYPE O	•	THER DATA
□ Notice of Intent □ Subsequent Report □ Final Abandonment	Acidize Alter Casing Casing Repair Change Plans Convert to Injector	Deepen Fracture Treat New Construction Plug & Abandon Plug Back	Production (Start/Resume) Reclamation Recomplete Temporarily Abandon Water Disposal	■ Water Shut-Off ■ Well Integrity ■ Other ■ Step Rate Test
proposal is to deepen directiona Bond under which the work wil of the involved operations. If the Final Abandonment Notices sha inspection.) A step rate test was co	Ily or recomplete horizontally, give sub I be performed or provide the Bond No. the operation results in a multiple completed Il be filed only after all requirements, in conducted on the subject wel	details, including estimated starting date surface locations and measured and true on file with BLM/BIA. Required subsetion or recompletion in a new interval, ancluding reclamation, have been completed in the property of t	vertical depths of all pertinent marked equent reports shall be filed within 30 a Form 3160-4 shall be filed once tested, and the operator has determined sults from the test indicate	ers and zones. Attach the days following completion ting has been completed, that the site is ready for final that the fracture
		Accepted by	the n of	

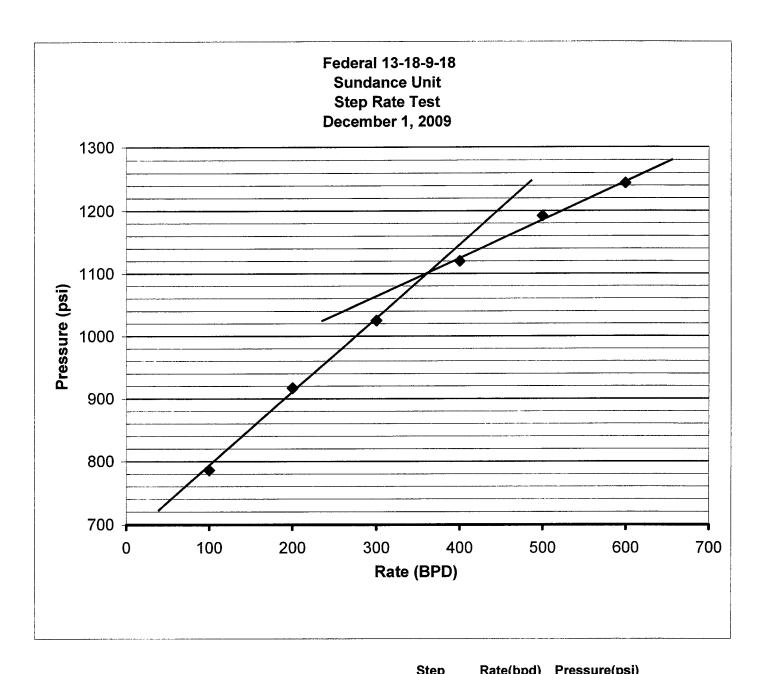
Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

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DIV. OF OIL, GAS & MINING

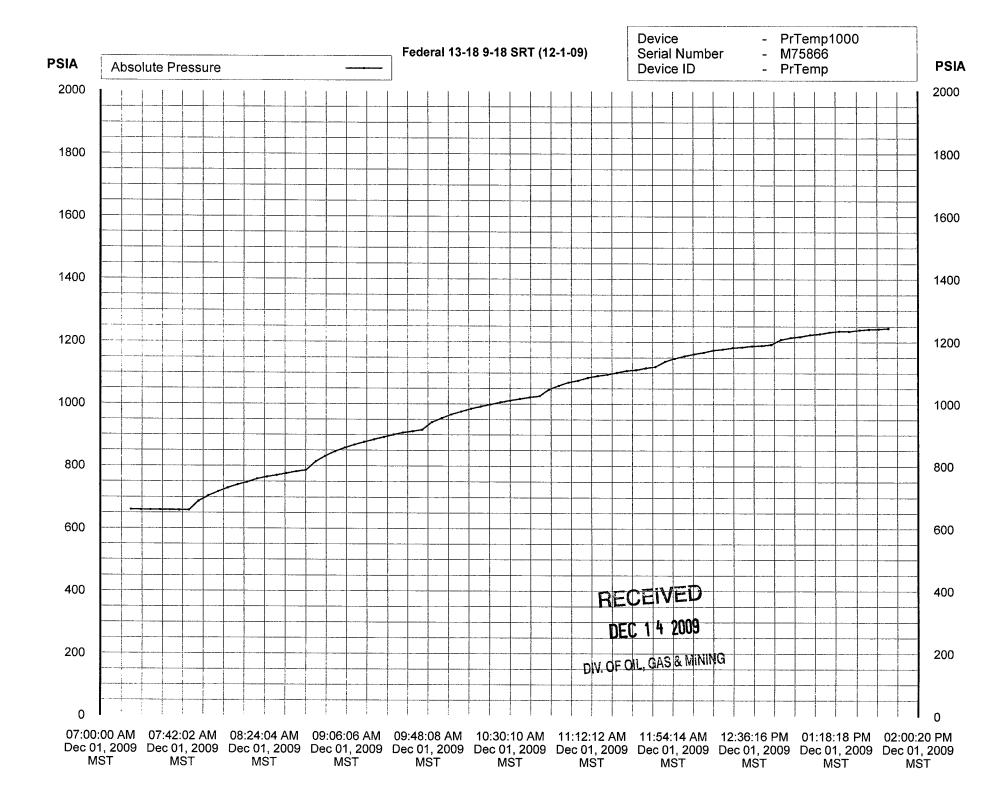
I hereby certify that the foregoing is true and correct <i>Printed/Typed</i>)	Title					
Chevenne Bateman	Well Analyst Foreman					
Signature Chuse State	Date 12/09/2009					
THIS SPACE FOR FEDERAL OR STATE OFFICE USE						
Approved by	Title	Date				
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.						



			Step	Mate(phu)	r ressure(psi)
Start Pressure:	659	psi	1	100	786
Instantaneous Shut In Pressure (ISIP):	1218	psi	2	200	917
Top Perforation:	4526	feet	3	300	1025
Fracture pressure (Pfp):	1100	psi	4	400	1120
FG:	0.683	psi/ft	5	500	1192
		•	6	600	1244

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DIV. OF OIL, GAS & MINING



Report Name: PrTemp1000 Data Table
Report Date: PrTemp1000 Data Table
Dec 02, 2009 08:16:36 AM MST

File Name: C:\Program Files\PTC® Instruments 2.00\Federal 13-18-9-18 SRT (12-1-09).csv

Title: Federal 13-18 9-18 SRT (12-1-09)

Device: PrTemp1000 - Temperature and Pressure Recorder

Hardware Revision:
Serial Number:
Device ID:

REV2C (64K)
M75866
PrTemp

Data Start Date: Dec 01, 2009 07:15:16 AM MST Data End Date: Dec 01, 2009 01:45:16 PM MST

Reading Rate: 2 Seconds
Readings: 1 to 79 of 79
Last Calibration Date: May 22, 2009
Next Calibration Date: May 22, 2010

60

Dec 01, 2009 12:10:14 PM

Next Calibration	n Date:	May 22, 2010		
Reading	Date and Time (MST)	Absolute Pressure	Annotation	
1	Dec 01, 2009 07:15:16 AM	660.200 PSIA		
2	Dec 01, 2009 07:20:15 AM	659.800 PSIA		
3	Dec 01, 2009 07:25:16 AM	659.600 PSIA		
4	Dec 01, 2009 07:30:15 AM	659.600 PSIA		
5	Dec 01, 2009 07:35:16 AM	659.000 PSIA		
6	Dec 01, 2009 07:40:15 AM	658.800 PSIA		
7	Dec 01, 2009 07:45:15 AM	658.600 PSIA		
8	Dec 01, 2009 07:50:14 AM	687.400 PSIA		
9	Dec 01, 2009 07:55:15 AM	704.400 PSIA		
10	Dec 01, 2009 08:00:16 AM Dec 01, 2009 08:05:15 AM	717.800 PSIA 729.600 PSIA		
11 12	Dec 01, 2009 08:10:15 AM	739.800 PSIA		
13	Dec 01, 2009 08:15:15 AM	747.800 PSIA		
14	Dec 01, 2009 08:20:16 AM	758.000 PSIA		
15	Dec 01, 2009 08:25:14 AM	764.400 PSIA		
16	Dec 01, 2009 08:30:16 AM	769.800 PSIA		
17	Dec 01, 2009 08:35:14 AM	775.600 PSIA		
18	Dec 01, 2009 08:40:16 AM	781.400 PSIA		
19	Dec 01, 2009 08:45:15 AM	786.200 PSIA		
20	Dec 01, 2009 08:50:15 AM	813.800 PSIA		
21	Dec 01, 2009 08:55:16 AM	831.800 PSIA		
22	Dec 01, 2009 09:00:14 AM	846.400 PSIA		
23	Dec 01, 2009 09:05:15 AM	858.000 PSIA		
24	Dec 01, 2009 09:10:14 AM	868.200 PSIA		
25	Dec 01, 2009 09:15:16 AM	876.800 PSIA		
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28	Dec 01, 2009 09:30:17 AM	906.800 PSIA		RECEIVED
29 30	Dec 01, 2009 09:35:15 AM Dec 01, 2009 09:40:16 AM	911.200 PSIA		
31	Dec 01, 2009 09:45:15 AM	916.600 PSIA		DEC 1 4 2009
32	Dec 01, 2009 09:50:15 AM	941.000 PSIA		
33	Dec 01, 2009 09:55:15 AM	954.000 PSIA		DIV OF OIL CAS & MINIMO
34	Dec 01, 2009 10:00:15 AM	966.000 PSIA		DIV. OF OIL, GAS & MINING
35	Dec 01, 2009 10:05:15 AM	975.200 PSIA		
36	Dec 01, 2009 10:10:15 AM	984.200 PSIA		
37	Dec 01, 2009 10:15:15 AM	991.800 PSIA		
38	Dec 01, 2009 10:20:14 AM	998.600 PSIA		
39	Dec 01, 2009 10:25:15 AM	1005.000 PSIA		
40	Dec 01, 2009 10:30:15 AM	1011.000 PSIA		
41	Dec 01, 2009 10:35:15 AM	1016.400 PSIA		
42	Dec 01, 2009 10:40:14 AM	1021.400 PSIA		
43	Dec 01, 2009 10:45:15 AM	1025.400 PSIA		
44 45	Dec 01, 2009 10:50:14 AM	1047.200 PSIA 1058.800 PSIA		
45 46	Dec 01, 2009 10:55:16 AM	1069.800 PSIA		
46 47	Dec 01, 2009 11:00:16 AM Dec 01, 2009 11:05:15 AM	1075.800 PSIA		
48	Dec 01, 2009 11:00:15 AM	1084.800 PSIA		
49	Dec 01, 2009 11:15:15 AM	1090.800 PSIA		
50	Dec 01, 2009 11:20:16 AM	1095.200 PSIA		
51	Dec 01, 2009 11:25:15 AM	1101.200 PSIA		
52	Dec 01, 2009 11:30:16 AM	1107.400 PSIA		
53	Dec 01, 2009 11:35:15 AM	1110.200 PSIA		
54	Dec 01, 2009 11:40:15 AM	1116.000 PSIA		
55	Dec 01, 2009 11:45:16 AM	1120.400 PSIA		
56	Dec 01, 2009 11:50:15 AM	1137.600 PSIA		
57	Dec 01, 2009 11:55:16 AM	1147.200 PSIA		
58	Dec 01, 2009 12:00:15 PM	1155.200 PSIA		
59	Dec 01, 2009 12:05:15 PM	1161.600 PSIA		
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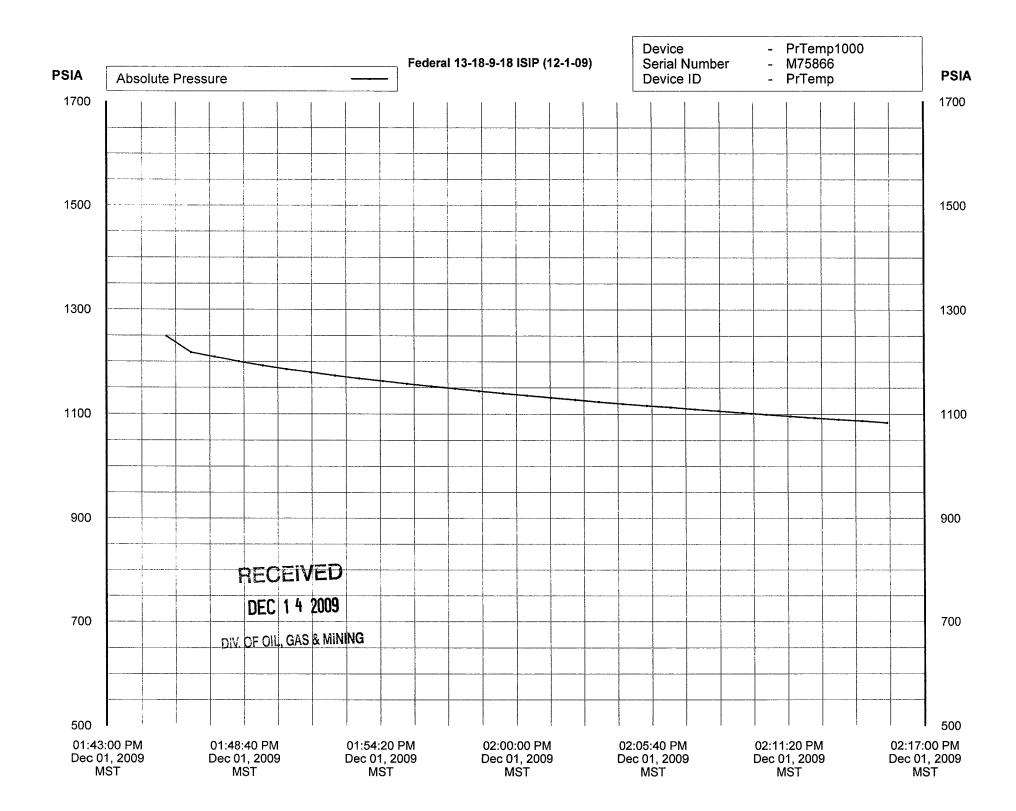
1166.400 PSIA

61 62 63 64 65 66 67 68 69 70 71 72	Dec 01, 2009 12:15:17 PM Dec 01, 2009 12:20:14 PM Dec 01, 2009 12:25:16 PM Dec 01, 2009 12:30:15 PM Dec 01, 2009 12:35:15 PM Dec 01, 2009 12:40:16 PM Dec 01, 2009 12:45:15 PM Dec 01, 2009 12:50:16 PM Dec 01, 2009 12:55:15 PM Dec 01, 2009 01:05:15 PM Dec 01, 2009 01:05:15 PM Dec 01, 2009 01:10:15 PM	1173.800 1177.000 1182.200 1184.000 1187.600 1188.800 1192.000 1208.200 1214.400 1217.600 1223.400 1226.400	PSIA PSIA PSIA PSIA PSIA PSIA PSIA PSIA
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DEC 1 4 2009

DIV. OF OIL, GAS & MINING



PrTemp1000 Data Table Report Name: Report Date:

Dec 02, 2009 08:16:26 AM MST
C:\Program Files\PTC® Instruments 2.00\Federal 13-18-9-18 ISIP (12-1-09).csv
Federal 13-18-9-18 ISIP (12-1-09) File Name:

Title:

PrTemp1000 - Temperature and Pressure Recorder Device:

REV2C (64K) Hardware Revision: Serial Number: M75866 PrTemp Device ID:

Dec 01, 2009 01:45:27 PM MST Data Start Date: Dec 01, 2009 02:15:29 PM MST Data End Date:

2 Seconds Reading Rate: 1 to 31 of 31 May 22, 2009 May 22, 2010 Readings: Last Calibration Date: Next Calibration Date:

Donding	Date and Time (MST)	Absolute Pressure	Annotation
<u>Reading</u>	Date and Time (MS1)	Absolute Flessure	Amotadon
1	Dec 01, 2009 01:45:27 PM	1248.800 PSIA	
2	Dec 01, 2009 01:46:28 PM	1217.600 PSIA	
3	Dec 01, 2009 01:47:27 PM	1209.000 PSIA	
4	Dec 01, 2009 01:48:27 PM	1200.200 PSIA	
5	Dec 01, 2009 01:49:27 PM	1192.200 PSIA	
6	Dec 01, 2009 01:50:27 PM	1185.200 PSIA	
7	Dec 01, 2009 01:51:27 PM	1179.400 PSIA	
8	Dec 01, 2009 01:52:28 PM	1173.000 PSIA	
9	Dec 01, 2009 01:53:28 PM	1167.600 PSIA	
10	Dec 01, 2009 01:54:27 PM	1162.600 PSIA	
11	Dec 01, 2009 01:55:27 PM	1157.400 PSIA	
12	Dec 01, 2009 01:56:28 PM	1152.400 PSIA	
13	Dec 01, 2009 01:57:27 PM	1148.200 PSIA	
14	Dec 01, 2009 01:58:27 PM	1143.600 PSIA	
15	Dec 01, 2009 01:59:28 PM	1139.200 PSIA	
16	Dec 01, 2009 02:00:27 PM	1135.000 PSIA	
17	Dec 01, 2009 02:01:27 PM	1131.000 PSIA	
18	Dec 01, 2009 02:02:28 PM	1127.000 PSIA	
19	Dec 01, 2009 02:03:27 PM	1123.200 PSIA	
20	Dec 01, 2009 02:04:27 PM	1119.400 PSIA	
21	Dec 01, 2009 02:05:28 PM	1116.000 PSIA	
22	Dec 01, 2009 02:06:27 PM	1113.000 PSIA	
23	Dec 01, 2009 02:07:27 PM	1109.000 PSIA	
24	Dec 01, 2009 02:08:27 PM	1105.800 PSIA	
25	Dec 01, 2009 02:09:28 PM	1102.400 PSIA	
26	Dec 01, 2009 02:10:27 PM	1099.200 PSIA	
27	Dec 01, 2009 02:11:27 PM	1095.800 PSIA	
28	Dec 01, 2009 02:12:28 PM	1092.600 PSIA	
29	Dec 01, 2009 02:13:27 PM	1089.800 PSIA	
30	Dec 01, 2009 02:14:27 PM	1087.200 PSIA	
31	Dec 01, 2009 02:15:29 PM	1083.800 PSIA	

RECEIVED DEC 1 4 2009

DIV. OF OIL, GAS & MINING

Federal 13-18-9-18 Rate Sheet (12-1-09)

Step # 1	Time: Rate:	7:50 100.4	7:55 100.4	8:00	8:05 100.3	8:10 100.3	8:15 100.3
	Nate.		100.4	100.0			
	Time:	8:20	8:25	8:30	8:35	8:40	8:45
	Rate:	100.3	100.3	100.2	100.2	100.2	100.2
	Time;	8:50	8:55	9:00	9:05	9:10	9:15
Step # 2	Rate:	200.4	200.3	200.3	200.2	200.2	200.2
	Time:	9:20	9:25	9:30	9:35	9:40	9:45
	Rate:	200.1	200.1	200.1	200.1	200	200
	Time:	9:50	9:55	10:00	10:05	10:10	10:15
Step #3	Rate:	300.5	300.5	300.5	300.4	300.4	300.4
	Time:	10:20	10:25	10:30	10:35	10:40	10:45
	Rate:	300.4	300.3	300.3	300.3	300.3	300.2
	Time:	10:50	10:55	11:00	11:05	11:10	11:15
Step # 4	Rate	400.5	400.4	400.4	400.4	400.4	400.3
	: Time:	11:20	11:25	11:30	11:35	11:40	11:45
	Rate:	400.3	400.3	400.2	400.2	400.2	400.2
	Time:	11:50	11:55	12:00	12:05	12:10	12:15
Step # 5	Rate:	500.3	500.3	500.3	500.2	500.2	500.2
	Time:	12:20	12:25	12:30	12:35	12:40	12:45
	Rate:	500.2	500.2	500.1	500.1	500.1	500.1
	Time:	12:50	12:55	1:00	1:05	1:10	1:15
Step # 6	Rate:	600.6	600.6	600.5	600.5	600.5	6000.3
	Time:	1:20	1:25	1:30	1:35	1:40	1:45
	Rate:	600.3	600.3	600.2	600.2	600.2	600.2
					-RECEI	VED_	
					DEC 14		
	and the second				DIV. OF OIL, GA		
					DIA' OL OIL' OU	of the territary as	
		****		4-11-11-11-11-11-11-11-11-11-11-11-11-11			
			-				-
				··			

Sundry Number: 52063 API Well Number: 43047355850000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		FORM 9			
ι	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-39714					
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:					
	posals to drill new wells, significantly deel reenter plugged wells, or to drill horizontal in for such proposals.		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)			
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: FEDERAL 13-18-9-18					
2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO		9. API NUMBER: 43047355850000				
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT,		ONE NUMBER:	9. FIELD and POOL or WILDCAT: 8 MILE FLAT NORTH			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0660 FSL 0660 FWL			COUNTY: UINTAH			
Qtr/Qtr: SWSW Section:	STATE: UTAH					
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA						
TYPE OF SUBMISSION		TYPE OF ACTION				
	ACIDIZE	ALTER CASING	CASING REPAIR			
NOTICE OF INTENT						
Approximate date work will start:		CHANGE TUBING	☐ CHANGE WELL NAME			
✓ SUBSEQUENT REPORT	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE			
Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION			
6/4/2014	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK			
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION			
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON			
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL			
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION			
Report Date.		SI TA STATUS EXTENSION				
	WILDCAT WELL DETERMINATION ✓	OTHER	OTHER: 5 YR MIT			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. 5 YR MIT performed on the above listed well. On 06/04/2014 the casing was pressured up to 1312 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbg pressure was 988 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-07849 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Accepted by the Utah Division of Oil, Gas and Mining FORING FOR FORING FOR FORING FOR FORING FOR FORING FOR FORING FOR						
NAME (DI EACE DRINT)	DUONE NUMBER	TITI E				
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician				
SIGNATURE N/A		DATE 6/9/2014				

Sundry Number: 52063 API Well Number: 43047355850000

Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test U.S. Environmental Protection Agency

U.S. Environmental Protection Agency Underground Injection Control Program 999 18th Street, Suite 500 Denver, CO 80202-2466

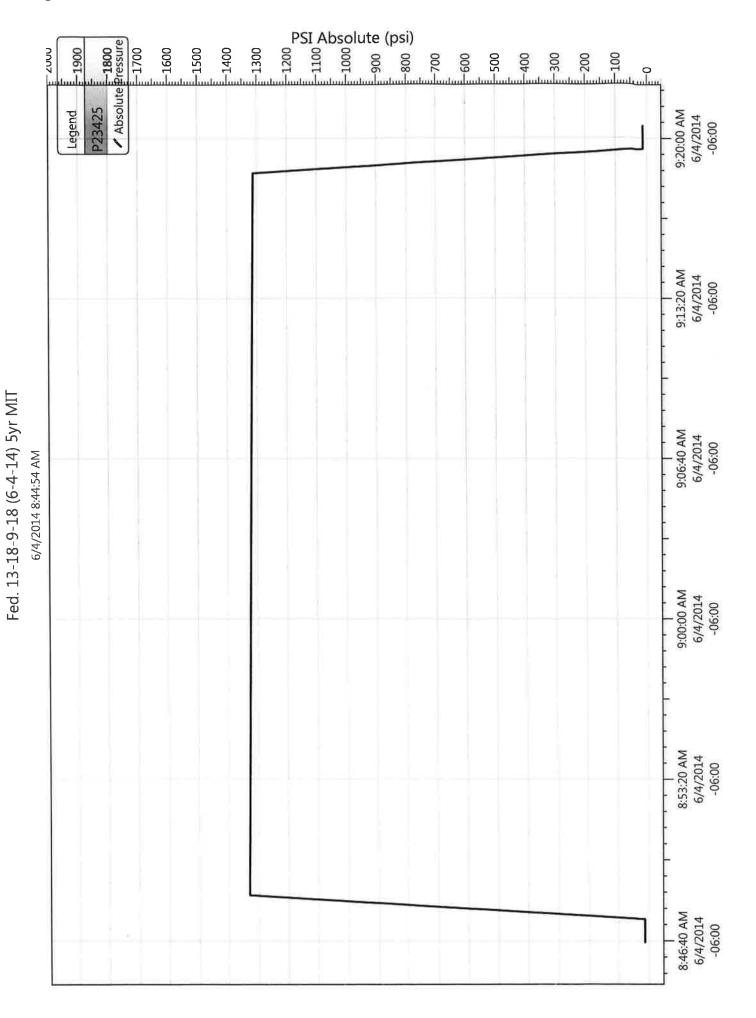
EPA Witness:			Date: 6141/4			
Test conducted by: ADHUNY SLIM						
Others present:						
Well Name: Feb. 13-18-9-18 Type: ER SWD Status: AC TA UC Field: GREATER MOUNTANT BOTTE VANT Location: 13 Sec: 18 T 9 N/Q R/B D/W County: VATAH State: Location: 13 Sec: 18 T 9 N/Q R/B D/W County: VATAH State: Location: 14 State: Location: 15 Sec: 18 T 9 N/Q R/B D/W County: VATAH State: Location: 16 State: Location: 18 State						
		0, 78				
MIT DATA TABLE TUBING	Test #1 PRESSURE		Test #2	Test #3		
Initial Pressure		psig	psig			
End of test pressure	988	psig	psig	psig psig		
CASING / TUBING	ANNULUS	F6	PRESSURE	harR		
0 minutes		psig	psig	psig		
5 minutes	1331 1328	psig	psig	psig		
10 minutes	1325	psig	psig	psig		
15 minutes	1322	psig	psig	psig		
20 minutes	1318	psig	psig	psig		
25 minutes	1315	psig	psig	psig		
30 minutes	1312	psig	psig	psig		
minutes	1012	psig	psig	psig		
minutes		psig	psig	psig		
RESULT	[⋈ Pass	[]Fail	Pass []Fail	Pass Fail		
V				I I I I I I I I I I I I I I I I I I I		

Does the annulus pressure build back up after the test? [] Yes [] No MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness:	

Sundry Number: 52063 API Well Number: 43047355850000



NEWFIELD

Schematic

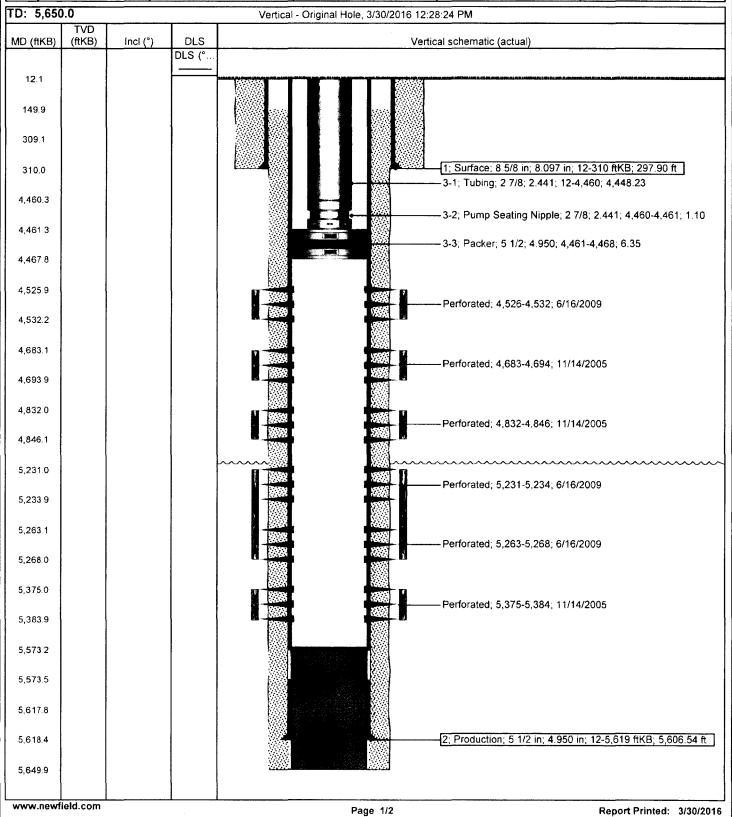
43-047-35585

Well Name: Federal 13-18-9-18 Surface Legal Location eld Name 43047355850000 500151040 18-9S-18E Utah GMBU CTB10 Uintah Spud Date Rig Release Date On Production Date Original KB Elevation (ft) Ground Elevation (ft) Total Depth All (TVD) (ftKB) PBTD (All) (ftKB) 11/17/2005 5,151 5,139 Original Hole - 5,573.0

 Most Recent Job

 Job Category
 Primary Job Type
 Secondary Job Type
 Job Start Date
 Job End Date

 Testing
 N/A
 6/4/2014
 6/4/2014





Newfield Wellbore Diagram Data Federal 13-18-9-18

				V. D. a. v. a.				
1				API/UWI 43047355850000		Lease		
County Uintah		State/Province Utah		Basin		Field Name GMBU CTB10		
Well Start Date 9/28/2005		- · ·		Final Rig Release Date		On Production Date		
Original KB Elevation (ft) Ground Elevation (ft)		Total Depth (ftKB)		Total Depth All (TVD) (ftKB)		11/17/2005 PBTD (All) (ftKB)		
5,151	5,139	5,650.0					Original Hole - 5,573.0	
Casing Strings								
Csg C Surface)es	Run Date 9/28/2005	OD (in) 8 5/8	ID (in) 8.097	Wt/Len (lb/ft) 24.00	Grade	Set Depth (ftKB) 310	
Production		10/24/2005	5 1/2	4.950	17.00		5,619	
Cement		J				<u> </u>		
String: Surface, 310	ftKB 10/4/2005							
Cementing Company				Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	
BJ Services Company Fluid Description				12.0 Fluid Type	310.0 Amount (sacks)	Class	Estimated Top (ftKB)	
2% CaCL2 + 1/4#/sk Cello-Flake mixed				Lead	160	G	12.0	
String: Production, Cementing Company	5,619ftKB 10/25/2	005		Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	
BJ Services Compan	у			150.0	5,650.0			
Fluid Description 10% get + 3 % KCL,	3#'s /sk CSE + 2#	sk/kolseal + 1/4#'s/	sk Cello Flake	Fluid Type Lead	Amount (sacks) 300	Class Premlite II	Estimated Top (ftKB) 150.0	
Fluid Description 2% Gel + 3% KCL, .5%EC1,1/4# sk C.F. 2% gel. 3%				Fluid Type	Amount (sacks)	Class	Estimated Top (ftKB)	
2% Gel + 3% KCL, .5	%EC1,1/4# sk C.F.	2% gel. 3% SM m	xed	Tail	<u> 410</u>	50/50 poz	2,500.0	
Tubing Description				Run Date		Set Depth (ftKB)		
Tubing Item Des	Jts	OD (in) #D (in)	Wt (lb/ft)	6/18/ Grade	/2009 Len (ft)	Top (ftKB)	4,467.7 Btm (ffKB)	
Tubing	138	2 7/8 2.44			4,448.23	12.0	4,460.3	
Pump Seating Nipple	1	2 7/8 2.44	1		1.10	4,460.3	4,461.4	
Packer	1	5 1/2 4.95	0		6.35	4,461.4	4,467.7	
Rod Strings Rod Description				Run Date		Set Depth (ftK8)		
Rod Description				ikun Date		Set Deptir (tiks)		
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
Perforation Intervals	<u> </u>					<u> </u>		
Stage#	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (*)	Nom Hole Dia (in)	Date	
4 C, Original		4,52		3			6/16/2009	
3 B2, Origina		4,68		4			11/14/2005	
2 A1, Original Hole 5 CP1, & CP2, Original Hole		4,83 5,23		3			11/14/2005 6/16/2009	
1 1	2, Original Hole	5,26	1	3		:	6/16/2009	
1 CP4, Original Hole		5,37		4			11/14/2005	
Stimulations & Trea						1		
							Vol Recov (bbl)	
Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	VOI (CCCV (CCC)	
2	1,890	0.8	2 25.1	1,850	Total Clean Vol (bbl)	Total Slurry Vol (bbi)	voi recov (usi)	
	1,890 2,250	0.8 0.9	2 25.1 1 25.2	1,850 2,190	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	voi necov (uoi)	
2	1,890	0.8	2 25.1 1 25.2 5 25.1	1,850	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	VOI NECOV (CO)	
2 3 1	1,890 2,250 1,685	0.8 0.9 0.7	2 25.1 1 25.2 5 25.1 3 15.0	1,850 2,190 1,970	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	voi recov (dui)	
2 3 1 4	1,890 2,250 1,685 1,460 2,192	0.8 0.9 0.7 0.7	2 25.1 1 25.2 5 25.1 15.0	1,850 2,190 1,970 4,128	Total Clean Vol (bbl)	Total Sturry Vol (bbl)	voi necov (dui)	
2 3 1 4 5	1,890 2,250 1,685 1,460	0.8 0.9 0.7 0.7 0.9	2 25.1 1 25.2 5 25.1 3 15.0 1 15.0	1,850 2,190 1,970 4,128 4,612	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	voi necov (dui)	
2 3 1 4 5 Proppant	1,890 2,250 1,685 1,460 2,192	0.8 0.9 0.7 0.7 0.9	2 25.1 1 25.2 5 25.1 3 15.0 1 15.0	1,850 2,190 1,970 4,128 4,612		Total Slurry Vol (bbl)	voi necov (doi)	
2 3 1 4 5 Proppant	1,890 2,250 1,685 1,460 2,192	0.8 0.9 0.7 0.7 0.9 Proppant White Si	2 25.1 1 25.2 5 25.1 3 15.0 1 15.0 and 59951 lb	1,850 2,190 1,970 4,128 4,612		Total Slurry Vol (bbl)	voi necov (doi)	
2 3 1 4 5 Proppant Stage# 2 3 1	1,890 2,250 1,685 1,460 2,192	0.8 0.9 0.7 0.7 0.9 Proppant White Si Proppant White Si Proppant White Si	2 25.1 1 25.2 5 25.1 3 15.0 1 15.0 and 59951 lb and 63172 lb and 30360 lb	1,850 2,190 1,970 4,128 4,612		Total Sturry Vol (bbl)	voi necov (doi)	
2 3 1 4 5 Proppant Stage# 2 3 1	1,890 2,250 1,685 1,460 2,192	0.8 0.9 0.7 0.7 0.9 Proppant White Si Proppant White Si Proppant White Si	2 2 25.1 1 25.2 5 25.1 3 15.0 1 15.0 and 59951 lb and 63172 lb and 30360 lb and 13825 lb	1,850 2,190 1,970 4,128 4,612		Total Sturry Vol (bbi)	Vol. Nector (dur)	
2 3 1 4 5 Proppant Stage# 2 3 1	1,890 2,250 1,685 1,460 2,192	0.8 0.9 0.7 0.7 0.9 Proppant White Si Proppant White Si Proppant White Si	2 2 25.1 1 25.2 5 25.1 3 15.0 1 15.0 and 59951 lb and 63172 lb and 30360 lb and 13825 lb	1,850 2,190 1,970 4,128 4,612		Total Slurry Vol (bbl)	Vol. Neculy (dui)	